

## SEQUENCE LISTING

<110> Human Genome Sciences, Inc.

<120> Albumin Fusion Proteins

<130> PF546PCT

<140> Unassigned

<141> 2001-04-12

<150> 60/229, 358

<151> 2000-04-12

<150> 60/256, 931

<151> 2000-12-21

<150> 60/199, 384

<151> 2000-04-25

<160> 2267

<170> PatentIn Ver. 2.1

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<213> Artificial Sequence

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<223> primer useful to clone human growth hormone cDNA

<400> 1

cccaagaatt cccttatcca ggc

23

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<223> primer useful to clone human growth hormone cDNA

<400> 2

gggaagctta gaagccacag gatccctcca cag

33

<210> 3

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<213> Artificial Sequence

<220>

<221> misc\_structure

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with non-cohesive ends.

<400> 3  
gataaagatt cccaac

16

<210> 4  
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with non-cohesive ends.

<400> 4  
aattggtggg aatcttt

17

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with non-cohesive ends.

<400> 5  
ttaggcttat tcccaac

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<210> 6  
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with non-cohesive ends.

<400> 6  
aattggtggg aataagcc

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<223> first 5 amino acids of mature human serum albumin

<400> 7

Met Leu Leu Gln Ala Phe Leu Phe Leu Leu Ala Gly Phe Ala Ala Lys  
 1 5 10 15

Ile Ser Ala Asp Ala His Lys Ser  
 20

<210> 8

<211> 21

<212> DNA

<213> Artificial Sequence

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 fragments with non-cohesive ends.

<400> 8

gagatgcaca cctgagtgag g

21

<210> 9

<211> 27

<212> DNA

<213> Artificial Sequence

<220>

<221> misc\_structure

<223> synthetic oligonucleotide used to join DNA  
 fragments with non-cohesive ends.

<400> 9

gatcctgtgg cttcgatgca cacaaga

27

<210> 10

<211> 24

<212> DNA

<213> Artificial Sequence

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<223> synthetic oligonucleotide used to join DNA  
 fragments with non-cohesive ends.

<400> 10

ctcttggtg catcgaagcc acag

24

<210> 11

<211> 30

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<213> Artificial Sequence

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<221> misc\_structure

<223> synthetic oligonucleotide used to join DNA

fragments with non-cohesive ends.

<400> 11  
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30

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<223> synthetic oligonucleotide used to join DNA  
fragments with non-cohesive ends.

<400> 12  
aattggtggg aataaattct gaggtcttc c

31

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fragments with non-cohesive ends.

<400> 13  
ttaggcttag gtggcggtgg atccggcggt ggtggatctt tcccaac

47

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fragments with non-cohesive ends.

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aattggtggg aaagatccac caccgccgga tccaccgcca cctaagcc

48

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<211> 62  
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fragments with non-cohesive ends.

<400> 15  
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ac

62

&lt;210&gt; 16

&lt;211&gt; 63

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;221&gt; misc\_structure

&lt;223&gt; synthetic oligonucleotide used to join DNA fragments with non-cohesive ends.

&lt;400&gt; 16

aattgttggg aaggatccac cgccaccaga tccgccgcca ccagatccac caccgcctaa 60  
gcc 63

&lt;210&gt; 17

&lt;211&gt; 1782

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; CDS

&lt;222&gt; (1)..(1755)

&lt;400&gt; 17

gat gca cac aag agt gag gtt gct cat cgg ttt aaa gat ttg gga gaa 48  
Asp Ala His Lys Ser Glu Val Ala His Arg Phe Lys Asp Leu Gly Glu  
1 5 10 15

gaa aat ttc aaa gcc ttg gtg ttg att gcc ttt gct cag tat ctt cag 96  
Glu Asn Phe Lys Ala Leu Val Leu Ile Ala Phe Ala Gln Tyr Leu Gln  
20 25 30

cag tgt cca ttt gaa gat cat gta aaa tta gtg aat gaa gta act gaa 144  
Gln Cys Pro Phe Glu Asp His Val Lys Leu Val Asn Glu Val Thr Glu  
35 40 45

ttt gca aaa aca tgt gtt gct gat gag tca gct gaa aat tgt gac aaa 192  
Phe Ala Lys Thr Cys Val Ala Asp Glu Ser Ala Glu Asn Cys Asp Lys  
50 55 60

tca ctt cat acc ctt ttt gga gac aaa tta tgc aca gtt gca act ctt 240  
Ser Leu His Thr Leu Phe Gly Asp Lys Leu Cys Thr Val Ala Thr Leu  
65 70 75 80

cgt gaa acc tat ggt gaa atg gct gac tgc tgt gca aaa caa gaa cct 288  
Arg Glu Thr Tyr Gly Glu Met Ala Asp Cys Cys Ala Lys Gln Glu Pro  
85 90 95

gag aga aat gaa tgc ttc ttg caa cac aaa gat gac aac cca aac ctc 336  
Glu Arg Asn Glu Cys Phe Leu Gln His Lys Asp Asp Asn Pro Asn Leu  
100 105 110

ccc cga ttg gtg aga cca gag gtt gat gtg atg tgc act gct ttt cat 384  
Pro Arg Leu Val Arg Pro Glu Val Asp Val Met Cys Thr Ala Phe His  
115 120 125

gac aat gaa gag aca ttt ttg aaa aaa tac tta tat gaa att gcc aga	432
Asp Asn Glu Glu Thr Phe Leu Lys Lys Tyr Leu Tyr Glu Ile Ala Arg	
130 135 140	
aga cat cct tac ttt tat gcc ccg gaa ctc ctt ttc ttt gct aaa agg	480
Arg His Pro Tyr Phe Tyr Ala Pro Glu Leu Leu Phe Phe Ala Lys Arg	
145 150 155 160	
tat aaa gct gct ttt aca gaa tgt tgc caa gct gct gat aaa gct gcc	528
Tyr Lys Ala Ala Phe Thr Glu Cys Cys Gln Ala Ala Asp Lys Ala Ala	
165 170 175	
tgc ctg ttg cca aag ctc gat gaa ctt cgg gat gaa ggg aag gct tcg	576
Cys Leu Leu Pro Lys Leu Asp Glu Leu Arg Asp Glu Gly Lys Ala Ser	
180 185 190	
tct gcc aaa cag aga ctc aaa tgt gcc agt ctc caa aaa ttt gga gaa	624
Ser Ala Lys Gln Arg Leu Lys Cys Ala Ser Leu Gln Lys Phe Gly Glu	
195 200 205	
aga gct ttc aaa gca tgg gca gtg gct cgc ctg agc cag aga ttt ccc	672
Arg Ala Phe Lys Ala Trp Ala Val Ala Arg Leu Ser Gln Arg Phe Pro	
210 215 220	
aaa gct gag ttt gca gaa gtt tcc aag tta gtg aca gat ctt acc aaa	720
Lys Ala Glu Phe Ala Glu Val Ser Lys Leu Val Thr Asp Leu Thr Lys	
225 230 235 240	
gtc cac acg gaa tgc tgc cat gga gat ctg ctt gaa tgt gct gat gac	768
Val His Thr Glu Cys Cys His Gly Asp Leu Leu Glu Cys Ala Asp Asp	
245 250 255	
agg gcg gac ctt gcc aag tat atc tgt gaa aat cag gat tcg atc tcc	816
Arg Ala Asp Leu Ala Lys Tyr Ile Cys Glu Asn Gln Asp Ser Ile Ser	
260 265 270	
agt aaa ctg aag gaa tgc tgt gaa aaa cct ctg ttg gaa aaa tcc cac	864
Ser Lys Leu Lys Glu Cys Cys Glu Lys Pro Leu Leu Glu Lys Ser His	
275 280 285	
tgc att gcc gaa gtg gaa aat gat gag atg cct gct gac ttg cct tca	912
Cys Ile Ala Glu Val Glu Asn Asp Glu Met Pro Ala Asp Leu Pro Ser	
290 295 300	
tta gct gct gat ttt gtt gaa agt aag gat gtt tgc aaa aac tat gct	960
Leu Ala Ala Asp Phe Val Glu Ser Lys Asp Val Cys Lys Asn Tyr Ala	
305 310 315 320	
gag gca aag gat gtc ttc ctg ggc atg ttt ttg tat gaa tat gca aga	1008
Glu Ala Lys Asp Val Phe Leu Gly Met Phe Leu Tyr Glu Tyr Ala Arg	
325 330 335	
agg cat cct gat tac tct gtc gtg ctg ctg ctg aga ctt gcc aag aca	1056
Arg His Pro Asp Tyr Ser Val Val Leu Leu Arg Leu Ala Lys Thr	
340 345 350	
tat gaa acc act cta gag aag tgc tgt gcc gct gca gat cct cat gaa	1104
Tyr Glu Thr Thr Leu Glu Lys Cys Cys Ala Ala Ala Asp Pro His Glu	
355 360 365	

tgc tat gcc aaa gtg ttc gat gaa ttt aaa cct ctt gtg gaa gag cct 1152  
 Cys Tyr Ala Lys Val Phe Asp Glu Phe Lys Pro Leu Val Glu Glu Pro  
 370 375 380

cag aat tta atc aaa caa aac tgt gag ctt ttt gag cag ctt gga gag 1200  
 Gln Asn Leu Ile Lys Gln Asn Cys Glu Leu Phe Glu Gln Leu Gly Glu  
 385 390 395 400

tac aaa ttc cag aat gcg cta tta gtt cgt tac acc aag aaa gta ccc 1248  
 Tyr Lys Phe Gln Asn Ala Leu Leu Val Arg Tyr Thr Lys Lys Val Pro  
 405 410 415

caa gtg tca act cca act ctt gta gag gtc tca aga aac cta gga aaa 1296  
 Gln Val Ser Thr Pro Thr Leu Val Glu Val Ser Arg Asn Leu Gly Lys  
 420 425 430

gtg ggc agc aaa tgt tgt aaa cat cct gaa gca aaa aga atg ccc tgt 1344  
 Val Gly Ser Lys Cys Cys Lys His Pro Glu Ala Lys Arg Met Pro Cys  
 435 440 445

gca gaa gac tat cta tcc gtg gtc ctg aac cag tta tgt gtg ttg cat 1392  
 Ala Glu Asp Tyr Leu Ser Val Val Leu Asn Gln Leu Cys Val Leu His  
 450 455 460

gag aaa acg cca gta agt gac aga gtc aca aaa tgc tgc aca gag tcc 1440  
 Glu Lys Thr Pro Val Ser Asp Arg Val Thr Lys Cys Cys Thr Glu Ser  
 465 470 475 480

ttg gtg aac agg cga cca tgc ttt tca gct ctg gaa gtc gat gaa aca 1488  
 Leu Val Asn Arg Arg Pro Cys Phe Ser Ala Leu Glu Val Asp Glu Thr  
 485 490 495

tac gtt ccc aaa gag ttt aat gct gaa aca ttc acc ttc cat gca gat 1536  
 Tyr Val Pro Lys Glu Phe Asn Ala Glu Thr Phe Thr Phe His Ala Asp  
 500 505 510

ata tgc aca ctt tct gag aag gag aga caa atc aag aaa caa act gca 1584  
 Ile Cys Thr Leu Ser Glu Lys Glu Arg Gln Ile Lys Lys Gln Thr Ala  
 515 520 525

ctt gtt gag ctt gtg aaa cac aag ccc aag gca aca aaa gag caa ctg 1632  
 Leu Val Glu Leu Val Lys His Lys Pro Lys Ala Thr Lys Glu Gln Leu  
 530 535 540

aaa gct gtt atg gat gat ttc gca gct ttt gta gag aag tgc tgc aag 1680  
 Lys Ala Val Met Asp Asp Phe Ala Ala Phe Val Glu Lys Cys Cys Lys  
 545 550 555 560

gct gac gat aag gag acc tgc ttt gcc gag gag ggt aaa aaa ctt gtt 1728  
 Ala Asp Asp Lys Glu Thr Cys Phe Ala Glu Glu Gly Lys Lys Leu Val  
 565 570 575

gct gca agt caa gct gcc tta gcc tta taacatctac attttaaagc atctcag 1782  
 Ala Ala Ser Gln Ala Ala Leu Gly Leu  
 580 585

&lt;210&gt; 18

&lt;211&gt; 585

&lt;212&gt; PRT

&lt;213&gt; Homo Sapiens

&lt;400&gt; 18

Asp Ala His Lys Ser Glu Val Ala His Arg Phe Lys Asp Leu Gly Glu  
 1 5 10 15

Glu Asn Phe Lys Ala Leu Val Leu Ile Ala Phe Ala Gln Tyr Leu Gln  
 20 25 30

Gln Cys Pro Phe Glu Asp His Val Lys Leu Val Asn Glu Val Thr Glu  
 35 40 45

Phe Ala Lys Thr Cys Val Ala Asp Glu Ser Ala Glu Asn Cys Asp Lys  
 50 55 60

Ser Leu His Thr Leu Phe Gly Asp Lys Leu Cys Thr Val Ala Thr Leu  
 65 70 75 80

Arg Glu Thr Tyr Gly Glu Met Ala Asp Cys Cys Ala Lys Gln Glu Pro  
 85 90 95

Glu Arg Asn Glu Cys Phe Leu Gln His Lys Asp Asp Asn Pro Asn Leu  
 100 105 110

Pro Arg Leu Val Arg Pro Glu Val Asp Val Met Cys Thr Ala Phe His  
 115 120 125

Asp Asn Glu Glu Thr Phe Leu Lys Lys Tyr Leu Tyr Glu Ile Ala Arg  
 130 135 140

Arg His Pro Tyr Phe Tyr Ala Pro Glu Leu Leu Phe Phe Ala Lys Arg  
 145 150 155 160

Tyr Lys Ala Ala Phe Thr Glu Cys Cys Gln Ala Ala Asp Lys Ala Ala  
 165 170 175

Cys Leu Leu Pro Lys Leu Asp Glu Leu Arg Asp Glu Gly Lys Ala Ser  
 180 185 190

Ser Ala Lys Gln Arg Leu Lys Cys Ala Ser Leu Gln Lys Phe Gly Glu  
 195 200 205

Arg Ala Phe Lys Ala Trp Ala Val Ala Arg Leu Ser Gln Arg Phe Pro  
 210 215 220

Lys Ala Glu Phe Ala Glu Val Ser Lys Leu Val Thr Asp Leu Thr Lys  
 225 230 235 240

Val His Thr Glu Cys Cys His Gly Asp Leu Leu Glu Cys Ala Asp Asp  
 245 250 255

Arg Ala Asp Leu Ala Lys Tyr Ile Cys Glu Asn Gln Asp Ser Ile Ser  
 260 265 270

Ser Lys Leu Lys Glu Cys Cys Glu Lys Pro Leu Leu Glu Lys Ser His  
 275 280 285

Cys Ile Ala Glu Val Glu Asn Asp Glu Met Pro Ala Asp Leu Pro Ser  
 290 295 300

Leu Ala Ala Asp Phe Val Glu Ser Lys Asp Val Cys Lys Asn Tyr Ala  
 305 310 315 320  
 Glu Ala Lys Asp Val Phe Leu Gly Met Phe Leu Tyr Glu Tyr Ala Arg  
 325 330 335  
 Arg His Pro Asp Tyr Ser Val Val Leu Leu Leu Arg Leu Ala Lys Thr  
 340 345 350  
 Tyr Glu Thr Thr Leu Glu Lys Cys Cys Ala Ala Ala Asp Pro His Glu  
 355 360 365  
 Cys Tyr Ala Lys Val Phe Asp Glu Phe Lys Pro Leu Val Glu Glu Pro  
 370 375 380  
 Gln Asn Leu Ile Lys Gln Asn Cys Glu Leu Phe Glu Gln Leu Gly Glu  
 385 390 395 400  
 Tyr Lys Phe Gln Asn Ala Leu Leu Val Arg Tyr Thr Lys Lys Val Pro  
 405 410 415  
 Gln Val Ser Thr Pro Thr Leu Val Glu Val Ser Arg Asn Leu Gly Lys  
 420 425 430  
 Val Gly Ser Lys Cys Cys Lys His Pro Glu Ala Lys Arg Met Pro Cys  
 435 440 445  
 Ala Glu Asp Tyr Leu Ser Val Val Leu Asn Gln Leu Cys Val Leu His  
 450 455 460  
 Glu Lys Thr Pro Val Ser Asp Arg Val Thr Lys Cys Cys Thr Glu Ser  
 465 470 475 480  
 Leu Val Asn Arg Arg Pro Cys Phe Ser Ala Leu Glu Val Asp Glu Thr  
 485 490 495  
 Tyr Val Pro Lys Glu Phe Asn Ala Glu Thr Phe Thr Phe His Ala Asp  
 500 505 510  
 Ile Cys Thr Leu Ser Glu Lys Glu Arg Gln Ile Lys Lys Gln Thr Ala  
 515 520 525  
 Leu Val Glu Leu Val Lys His Lys Pro Lys Ala Thr Lys Glu Gln Leu  
 530 535 540  
 Lys Ala Val Met Asp Asp Phe Ala Ala Phe Val Glu Lys Cys Cys Lys  
 545 550 555 560  
 Ala Asp Asp Lys Glu Thr Cys Phe Ala Glu Glu Gly Lys Lys Leu Val  
 565 570 575  
 Ala Ala Ser Gln Ala Ala Leu Gly Leu  
 580 585

&lt;210&gt; 19

&lt;211&gt; 57

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

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<223> primer used to generate XhoI and ClaI  
site in pPPC0006

<400> 19

gcctcgagaa aagagatgca cacaagagtg aggttgctca tcgatttaaa gatttgg 57

<210> 20

<211> 58

<212> DNA

<213> Artificial Sequence

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<223> primer used in generation XhoI and ClaI  
site in pPPC0006

<400> 20

aatcgatgag caacctcact cttgtgtgca tctcttttct cgaggctcct ggaataag 58

<210> 21

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

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<223> primer used in generation XhoI and ClaI  
site in pPPC0006

<400> 21

tacaaactta agagtccaat tagc 24

<210> 22

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<223> primer used in generation XhoI and ClaI  
site in pPPC0006

<400> 22

cacttctcta gagggttttc atatgtctt 29

<210> 23

<211> 60

<212> DNA

<213> Artificial Sequence

<220>

<221> Misc\_Structure

<223> Synthetic oligonucleotide used to alter restriction



sites in pPPC0007

<400> 23

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<211> 60

<212> DNA

<213> Artificial Sequence

<220>

<221> Misc\_Structure

<223> Synthetic oligonucleotide used to alter restriction sites in pPPC0007

<400> 24

agaattaagc ttagtttaaa cggccggccg gcgcgcctta ttataagcct aaggcagctt 60

<210> 25

<211> 32

<212> DNA

<213> Artificial Sequence

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<223> forward primer useful for generation of albumin fusion protein in which the albumin moiety is N-terminal of the Therapeutic Protein

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32

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<220>  
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 fusion protein in which the albumin moiety is N-terminal  
 of the Therapeutic Protein

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51

<210> 27  
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<223> forward primer useful for generation of albumin fusion protein in which the albumin moiety is c-terminal of the Therapeutic Protein

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 aggagcgtcg acaaaagann nnnnnnnnnn nnn

33

<210> 28  
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 fusion protein in which the albumin moiety is c-terminal of  
 the Therapeutic Protein

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<223> n equals a, t, g, or c

<220>  
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<220>  
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 <222> (52)  
 <223> n equals a, t, g, or c

<400> 28  
 ctttaaatacg atgagcaacc tcactcttgt gtgcacacnnn nnnnnnnnnn nn 52

<210> 29  
 <211> 24  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <221> signal  
 <223> signal peptide of natural human serum albumin protein

<400> 29  
 Met Lys Trp Val Ser Phe Ile Ser Leu Leu Phe Leu Phe Ser Ser Ala  
           1                  5                          10                          15  
 Tyr Ser Arg Ser Leu Asp Lys Arg  
                           20

<210> 30  
 <211> 114  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <221> primer\_bind  
 <223> forward primer useful for generation of PC4:HSA  
 albumin fusion VECTOR

<220>  
 <221> misc\_feature  
 <222> (5)..(10)  
 <223> BamHI restriction site

<220>  
 <221> misc\_feature  
 <222> (11)..(16)  
 <223> Hind III restriction site

<220>  
 <221> misc\_feature  
 <222> (17)..(27)  
 <223> Kozak sequence

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<220>
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<222> (25)..(97)
<223> cds natural signal sequence of human serum albumin

<220>
<221> misc_feature
<222> (75)..(81)
<223> XhoI restriction site

<220>
<221> misc_feature
<222> (98)..(114)
<223> cds first six amino acids of human serum albumin

<400> 30
tcagggatcc aagcttccgc caccatgaag tgggtaacct ttatttcctc tctttttctc 60

tttagctcgg cttactcgag ggggtgtgttt cgtcgagatg cacacaagag tgag      114

<210> 31
<211> 43
<212> DNA
<213> Artificial Sequence

<220>
<221> primer_bind
<223> reverse primer useful for generation of
PC4:HSA albumin fusion VECTOR

<220>
<221> misc_feature
<222> (6)..(11)
<223> Asp718 restriction site

<220>
<221> misc_feature
<222> (12)..(17)
<223> EcoRI restriction site

<220>
<221> misc_feature
<222> (15)..(17)
<223> reverse complement of stop codon

<220>
<221> misc_feature
<222> (18)..(25)
<223> AscI restriction site

<220>
<221> misc_feature
<222> (18)..(43)
<223> reverse complement of DNA sequence encoding last 9 amino acids

<400> 31
gcagcgggtac cgaattcggc ggcgcttata agcctaaggc agc      43

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<210> 32  
<211> 46  
<212> DNA  
<213> Artificial Sequence

<220>  
<221> primer\_bind  
<223> forward primer useful for inserting Therapeutic protein into pC4:HSA vector

<220>  
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<222> (29)  
<223> n equals a, t, g, or c

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<222> (36)  
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<222> (38)  
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<223> n equals a, t, g, or c

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<223> n equals a, t, g, or c

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<222> (45)  
<223> n equals a, t, g, or c

<220>  
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<222> (46)  
<223> n equals a, t, g, or c

<400> 32  
ccgccgctcg aggggtgtgt ttcgtcgann nnnnnnnnnn nnnnnn

46

<210> 33  
<211> 55  
<212> DNA  
<213> Artificial Sequence

<220>  
<221> primer\_bind  
<223> reverse primer useful for inserting Therapeutic  
protein into pC4:HSA vector

<220>  
<221> Misc\_Structure  
<222> (38)  
<223> n equals a, t, g, or c

<220>  
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<222> (39)  
<223> n equals a, t, g, or c

<220>  
<221> Misc\_Structure  
<222> (40)  
<223> n equals a, t, g, or c

<220>  
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<222> (41)  
<223> n equals a, t, g, or c

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<222> (42)  
<223> n equals a, t, g, or c

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<220>  
<221> Misc\_Structure  
<222> (44)  
<223> n equals a, t, g, or c

<220>  
<221> Misc\_Structure  
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<223> n equals a, t, g, or c

<220>  
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<222> (46)  
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<220>  
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 <223> n equals a, t, g, or c

<220>  
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 <222> (55)  
 <223> n equals a, t, g, or c

<400> 33  
 agtcccatcg atgagcaacc tcactcttgt gtgcacnnnn nnnnnnnnnn nnnnn 55

<210> 34  
 <211> 17  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <221> signal  
 <223> Stanniocalcin signal peptide

<400> 34  
 Met Leu Gln Asn Ser Ala Val Leu Leu Leu Val Ile Ser Ala Ser  
           1                  5                  10                  15

Ala

<210> 35  
 <211> 22  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <221> signal  
 <223> Synthetic signal peptide

<400> 35  
 Met Pro Thr Trp Ala Trp Trp Leu Phe Leu Val Leu Leu Ala Leu  
           1                  5                  10                  15

Trp Ala Pro Ala Arg Gly  
                           20

<210> 36  
<211> 23  
<212> DNA  
<213> Artificial Sequence

<220>  
<221>primer\_bind  
<223>Degenerate VH forward primer useful for  
amplifying human VH domains

<400> 36  
caggtgcagc tgggtgcagtc tgg

23

<210> 37  
<211> 23  
<212> DNA  
<213> Artificial Sequence

<220>  
<221>primer\_bind  
<223>Degenerate VH forward primer useful for  
amplifying human VH domains

<400> 37  
caggtcaact taaggagtc tgg

23

<210> 38  
<211> 23  
<212> DNA  
<213> Artificial Sequence

<220>  
<221>primer\_bind  
<223>Degenerate VH forward primer useful for  
amplifying human VH domains

<400> 38  
gaggtgcagc tgggtggagtc tgg

23

<210> 39  
<211> 23  
<212> DNA  
<213> Artificial Sequence

<220>  
<221>primer\_bind  
<223>Degenerate VH forward primer useful for  
amplifying human VH domains

<400> 39  
caggtgcagc tgcaggagtc ggg

23

<210> 40  
<211> 23  
<212> DNA

<213> Artificial Sequence

<220>

<221>primer\_bind

<223>Degenerate VH forward primer useful for  
amplifying human VH domains

<400> 40

gaggtgcagc tggtgcagtc tgc

23

<210> 41

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<221>primer\_bind

<223>Degenerate VH forward primer useful for  
amplifying human VH domains

<400> 41

caggtacagc tgcagcagtc agg

23

<210> 42

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<221>primer\_bind

<223>Degenerate JH reverse primer useful for  
amplifying human VH domains

<400> 42

tgaggagacg gtgaccaggg tgcc

24

<210> 43

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<221>primer\_bind

<223>Degenerate JH reverse primer useful for  
amplifying human VH domains

<400> 43

tgaagagacg gtgaccattg tccc

24

<210> 44

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<221>primer\_bind

<223>Degenerate JH reverse primer useful for  
amplifying human VH domains

<400> 44  
tgaggagacg gtgaccaggg ttcc 24

<210> 45  
<211> 24  
<212> DNA  
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<220>  
<221>primer\_bind  
<223>Degenerate JH reverse primer useful for  
amplifying human VH domains

<400> 45  
tgaggagacg gtgaccgtgg tccc 24

<210> 46  
<211> 23  
<212> DNA  
<213> Artificial Sequence

<220>  
<221>primer\_bind  
<223>Degenerate Vkappa forward primer useful for  
amplifying human VL domains

<400> 46  
gacatccaga tgaccagtc tcc 23

<210> 47  
<211> 23  
<212> DNA  
<213> Artificial Sequence

<220>  
<221>primer\_bind  
<223>Degenerate Vkappa forward primer useful for  
amplifying human VL domains

<400> 47  
gatgttgga tgactcagtc tcc 23

<210> 48  
<211> 23  
<212> DNA  
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<220>  
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<223>Degenerate Vkappa forward primer useful for  
amplifying human VL domains

<400> 48  
gatattgga tgactcagtc tcc 23

<210> 49  
<211> 23  
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<220>  
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amplifying human VL domains

<400> 49  
gaaattgtgt tgacgcagtc tcc 23

<210> 50  
<211> 23  
<212> DNA  
<213> Artificial Sequence

<220>  
<221>primer\_bind  
<223>Degenerate Vkappa forward primer useful for  
amplifying human VL domains

<400> 50  
gacatcgtga tgacccagtc tcc 23

<210> 51  
<211> 23  
<212> DNA  
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<220>  
<221>primer\_bind  
<223>Degenerate Vkappa forward primer useful for  
amplifying human VL domains

<400> 51  
gaaacgacac tcacgcagtc tcc 23

<210> 52  
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<212> DNA  
<213> Artificial Sequence

<220>  
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amplifying human VL domains

<400> 52  
gaaattgtgc tgactcagtc tcc 23

<210> 53  
<211> 23  
<212> DNA  
<213> Artificial Sequence

<220>  
<221>primer\_bind  
<223>Degenerate Vlambda forward primer useful for  
amplifying human VL domains

<400> 53  
cagtctgtgt tgacgcagcc gcc 23



<210> 54  
<211> 23  
<212> DNA  
<213> Artificial Sequence

<220>  
<221>primer\_bind  
<223>Degenerate Vlambda forward primer useful for  
amplifying human VL domains

<400> 54  
cagtctgccc tgactcagcc tgc 23

<210> 55  
<211> 23  
<212> DNA  
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<220>  
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amplifying human VL domains

<400> 55  
tcctatgtgc tgactcagcc acc 23

<210> 56  
<211> 23  
<212> DNA  
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<220>  
<221>primer\_bind  
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<400> 56  
tcttctgagc tgactcagga ccc 23

<210> 57  
<211> 23  
<212> DNA  
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<220>  
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amplifying human VL domains

<400> 57  
cacgttatac tgactcaacc gcc 23

<210> 58  
<211> 23  
<212> DNA  
<213> Artificial Sequence

<220>  
<221>primer\_bind  
<223>Degenerate Vlambda forward primer useful for

amplifying human VL domains

<400> 58  
caggctgtgc tcactcagcc gtc 23

<210> 59  
<211> 23  
<212> DNA  
<213> Artificial Sequence

<220>  
<221>primer\_bind  
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amplifying human VL domains

<400> 59  
aatatttatgc tgactcagcc cca 23

<210> 60  
<211> 24  
<212> DNA  
<213> Artificial Sequence

<220>  
<221>primer\_bind  
<223>Degenerate Jkappa reverse primer useful for  
amplifying human VL domains

<400> 60  
acgtttgatt tccaccttgg tccc 24

<210> 61  
<211> 24  
<212> DNA  
<213> Artificial Sequence

<220>  
<221>primer\_bind  
<223>Degenerate Jkappa reverse primer useful for  
amplifying human VL domains

<400> 61  
acgtttgatc tccagcttgg tccc 24

<210> 62  
<211> 24  
<212> DNA  
<213> Artificial Sequence

<220>  
<221>primer\_bind  
<223>Degenerate Jkappa reverse primer useful for  
amplifying human VL domains

<400> 62  
acgtttgata tccactttgg tccc 24

<210> 63  
<211> 24  
<212> DNA

<213> Artificial Sequence

<220>  
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<223>Degenerate Jkappa reverse primer useful for  
amplifying human VL domains

<400> 63  
acgtttgatc tccaccttgg tccc 24

<210> 64  
<211> 24  
<212> DNA  
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<220>  
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amplifying human VL domains

<400> 64  
acgtttaatc tccagtcgtg tccc 24

<210> 65  
<211> 23  
<212> DNA  
<213> Artificial Sequence

<220>  
<221>primer\_bind  
<223>Degenerate Jlamba reverse primer useful for  
amplifying human VL domains

<400> 65  
cagtctgtgt tgacgcagcc gcc 23

<210> 66  
<211> 23  
<212> DNA  
<213> Artificial Sequence

<220>  
<221>primer\_bind  
<223>Degenerate Jlamba reverse primer useful for  
amplifying human VL domains

<400> 66  
cagtctgccc tgactcagcc tgc 23

<210> 67  
<211> 23  
<212> DNA  
<213> Artificial Sequence

<220>  
<221>primer\_bind  
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amplifying human VL domains

<400> 67

tcctatgtgc tgactcagcc acc 23

<210> 68  
<211> 23  
<212> DNA  
<213> Artificial Sequence

<220>  
<221>primer\_bind  
<223>Degenerate Jlambda reverse primer useful for  
amplifying human VL domains

<400> 68  
tcttctgagc tgactcagga ccc 23

<210> 69  
<211> 23  
<212> DNA  
<213> Artificial Sequence

<220>  
<221>primer\_bind  
<223>Degenerate Jlambda reverse primer useful for  
amplifying human VL domains

<400> 69  
cacgttatac tgactcaacc gcc 23

<210> 70  
<211> 23  
<212> DNA  
<213> Artificial Sequence

<220>  
<221>primer\_bind  
<223>Degenerate Jlambda reverse primer useful for  
amplifying human VL domains

<400> 70  
caggctgtgc tcactcagcc gtc 23

<210> 71  
<211> 23  
<212> DNA  
<213> Artificial Sequence

<220>  
<221>primer\_bind  
<223>Degenerate Jlambda reverse primer useful for  
amplifying human VL domains

<400> 71  
aatattatgc tgactcagcc cca 23

<210> 72  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>

<221>turn

<223>Linker peptide that may be used to join VH  
and VL domains in an scFv.

<400> 72

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser  
1 5 10 15

<210> 73

<211> 101

<212> PRT

<213> Homo sapiens

<400> 73

Pro Ala Leu Phe Ile Cys Val Ile Ile Phe Val Asn Ile Val Phe Ser  
1 5 10 15

Val Val Ala Thr Ser Ser Pro Pro Ala Ser Gly Ser Val Cys Leu Pro  
20 25 30

Gly Leu Leu Ala Pro His Trp Ala Ala Pro Gly Ser Leu Pro Leu Ile  
35 40 45

Pro Gly Leu Ala Val Arg Pro Ser Gln Gln Gly Pro Val Thr Gln Gln  
50 55 60

Pro Ala Gln Ser Ile Cys Phe Trp Gly Met Gly Trp Gly Leu Leu His  
65 70 75 80

Arg Arg Phe Glu Pro Ser Thr Leu Gly Lys Gly Thr Leu His Asp Thr  
85 90 95

Pro Leu Pro Pro Ser  
100

<210> 74

<211> 58

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 74

Arg Pro Ser Leu Pro Lys Cys Ala Ala Leu Val His Val Pro Asn Gly  
1 5 10 15

Pro Ser Pro His Ala Pro Pro Xaa Ser Gly Val Gly Ala Pro Ser Glu  
20 25 30

Val Ser Glu Ser Leu Lys Cys Ser Phe Val Arg Pro Leu Cys Ser Asp  
35 40 45

Ser Pro Gly Gln Ala Thr Ser Asn Pro Leu

50

55

&lt;210&gt; 75

&lt;211&gt; 119

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 75

Asp Leu Asp Leu Met Glu Ser Gly Val Ser Thr His Asn Met Ser Ser  
 1 5 10 15

Trp Thr Leu Gly Ile His Cys Glu Gln Ala Gly Trp Gly Leu Pro Ala  
 20 25 30

Gln Ile Gly Ala Ile Leu Phe Cys Ile Leu Phe Gln Gly Val Leu Asn  
 35 40 45

Thr Leu Lys Gln Val Glu Ala Pro Ala Pro Asp Trp Glu Leu Leu Glu  
 50 55 60

Arg Pro Pro Cys Val Cys Val Val Leu Ser Trp Ser His Ile Glu Ser  
 65 70 75 80

Gly Trp Gly Ser Ser Thr Arg Gln Ser Pro Ser Asn Ser Gln Val Leu  
 85 90 95

Ala Pro Ser Gly Lys Ala Asp Thr Leu Ser Trp Arg Arg Pro Arg Lys  
 100 105 110

Ser Gly Leu Arg Val Ala Ala  
 115

&lt;210&gt; 76

&lt;211&gt; 90

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (5)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 76

Val Thr Cys Gln Xaa Val Leu Pro Ser Pro Val Tyr Leu Cys Asn Tyr  
 1 5 10 15

Phe Cys Lys His Cys Ile Leu Cys Gly Arg His Leu Leu Ala Pro Ser  
 20 25 30

Leu Gly Phe Ser Leu Ser Ser Arg Pro Ala Cys Thr Ser Leu Gly Cys  
 35 40 45

Ser Gly Val Ser Ala Pro His Ser Arg Pro Gly Cys Gln Ala Gln Pro  
 50 55 60

Ala Gly Ala Arg Asp Pro Ala Ala Cys Pro Lys His Leu Phe Leu Gly

65

70

75

80

Asp Gly Val Gly Ala Ala Pro Gln Glu Val  
                             85                            90

&lt;210&gt; 77

&lt;211&gt; 70

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (29)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (34)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (37)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 77

Met Asp Pro Ala Ala Val Ala Leu Leu Ala Leu Ser Leu Pro Cys Ala  
   1                            5                            10                            15

Leu Val Gly Val Gln Trp Glu Gln Ala Pro Trp Gly Xaa Trp Arg Leu  
                             20                            25                            30

Ser Xaa Ser Ala Xaa Thr Pro Glu Thr Pro Ser Trp Arg Leu Cys Pro  
                             35                            40                            45

Leu Arg Asp Tyr Pro Lys Pro Gly Gln Arg Ser Gly Gly Asp Arg Gly  
                             50                            55                            60

Ser His Ile Arg Ser Leu  
   65                            70

&lt;210&gt; 78

&lt;211&gt; 194

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (3)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (17)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids.

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (33)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 78

Gln Trp Xaa Gly Gln Gly Ser Leu Cys Pro Trp Tyr Cys Cys Pro Gly  
 1 5 10 15

Xaa Val Ser Ala Val Thr Leu Leu Pro Ser Trp Trp Leu Leu Arg Pro  
 20 25 30

Xaa Phe Val Leu Leu Phe Leu Pro Lys Cys Leu Ser Ser Pro Ser Cys  
 35 40 45

Ile Lys Tyr Pro Cys Cys Ala Thr Asn Tyr Leu Glu Leu Gly Asp Phe  
 50 55 60

Thr Thr Thr Ala Cys Gln Arg Pro Ala Val Asp Glu Gly Leu Gly Gly  
 65 70 75 80

Met Ala Gly Pro Ala Gln Gly Ser Leu Ala Glu Val Gly Ala Glu Ala  
 85 90 95

Ala Arg His Trp Arg Leu Gly Leu Ser His Thr Pro Trp Leu Leu Gly  
 100 105 110

Gly Cys Ile Leu Leu Ser Ser Leu Ser Ser Arg Gly Cys Thr Leu Gly  
 115 120 125

Cys Arg Pro Pro Val Ser Leu Thr Gly Tyr Ser Trp Gly Ser Leu Arg  
 130 135 140

Ser Trp Arg Cys Pro Gln Pro Pro Ser Pro Arg Leu Pro Pro Pro His  
 145 150 155 160

Thr Leu Arg Pro Gln Arg Phe Val Arg Val His Glu Ile Leu Glu Leu  
 165 170 175

Pro Gly Cys Ser Phe Cys Asn Ile Phe Asn Ile Cys Asn Pro Val Lys  
 180 185 190

Tyr Gln

&lt;210&gt; 79

&lt;211&gt; 103

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 79

Met Asp Pro Ala Ala Val Ala Leu Leu Ala Leu Ser Leu Pro Cys Ala  
 1 5 10 15

Leu Val Gly Val Gln Trp Glu Gln Ala Pro Trp Gly Pro Trp Arg Leu  
 20 25 30

Ser Leu Leu Ser Pro His Pro Arg Asp Pro Ile Val Ala Pro Val Ser



35                      40                      45  
 Thr Gln Gly Leu Ser Gln Ala Trp Pro Glu Val Gly Arg Gly Gln Arg  
     50                      55                      60  
 Glu Pro His Arg Ser Leu Tyr Gln Pro Leu Ser Tyr His Arg Val Gly  
     65                      70                      75                      80  
 Ala Leu Pro Ser His Arg Val Ser Gly Leu Trp Ala Pro Pro Ser Cys  
                     85                      90                      95  
 Thr Gly Pro Arg Gly His Phe  
                     100

<210> 80  
 <211> 477  
 <212> PRT  
 <213> Homo sapiens

<400> 80  
 Met Ala Ala Pro Thr Pro Ala Arg Pro Val Leu Thr His Leu Leu Val  
     1                      5                      10                      15  
 Ala Leu Phe Gly Met Gly Ser Trp Ala Ala Val Asn Gly Ile Trp Val  
                     20                      25                      30  
 Glu Leu Pro Val Val Val Lys Glu Leu Pro Glu Gly Trp Ser Leu Pro  
                     35                      40                      45  
 Ser Tyr Val Ser Val Leu Val Ala Leu Gly Asn Leu Gly Leu Leu Val  
                     50                      55                      60  
 Val Thr Leu Trp Arg Arg Leu Ala Pro Gly Lys Asp Glu Gln Val Pro  
     65                      70                      75                      80  
 Ile Arg Val Val Gln Val Leu Gly Met Val Gly Thr Ala Leu Leu Ala  
                     85                      90                      95  
 Ser Leu Trp His His Val Ala Pro Val Ala Gly Gln Leu His Ser Val  
                     100                      105                      110  
 Ala Phe Leu Ala Leu Ala Phe Val Leu Ala Leu Ala Cys Cys Ala Ser  
                     115                      120                      125  
 Asn Val Thr Phe Leu Pro Phe Leu Ser His Leu Pro Pro Arg Phe Leu  
                     130                      135                      140  
 Arg Ser Phe Phe Leu Gly Gln Gly Leu Ser Ala Leu Leu Pro Cys Val  
     145                      150                      155                      160  
 Leu Ala Leu Val Gln Gly Val Gly Arg Leu Glu Cys Pro Pro Ala Pro  
                     165                      170                      175  
 Ile Asn Gly Thr Pro Gly Pro Pro Leu Asp Phe Leu Glu Arg Phe Pro  
                     180                      185                      190  
 Ala Ser Thr Phe Phe Trp Ala Leu Thr Ala Leu Leu Val Ala Ser Ala  
                     195                      200                      205

Ala Ala Phe Gln Gly Leu Leu Leu Leu Leu Pro Pro Pro Pro Ser Val  
 210 215 220  
 Pro Thr Gly Glu Leu Gly Ser Gly Leu Gln Val Gly Ala Pro Gly Ala  
 225 230 235 240  
 Glu Glu Glu Val Glu Glu Ser Ser Pro Leu Gln Glu Pro Pro Ser Gln  
 245 250 255  
 Ala Ala Gly Thr Thr Pro Gly Pro Asp Pro Lys Ala Tyr Gln Leu Leu  
 260 265 270  
 Ser Ala Arg Ser Ala Cys Leu Leu Gly Leu Leu Ala Ala Thr Asn Ala  
 275 280 285  
 Leu Thr Asn Gly Val Leu Pro Ala Val Gln Ser Phe Ser Cys Leu Pro  
 290 295 300  
 Tyr Gly Arg Leu Ala Tyr His Leu Ala Val Val Leu Gly Ser Ala Ala  
 305 310 315 320  
 Asn Pro Leu Ala Cys Phe Leu Ala Met Gly Val Leu Cys Arg Tyr Thr  
 325 330 335  
 Arg Thr Pro Ser Pro Cys Ala Gly Gly Thr Gln Gly Trp Glu Pro Gly  
 340 345 350  
 Pro Gly Ala Val Ser Pro Asp Ile Leu Leu Ala His Cys Arg Ser Leu  
 355 360 365  
 Ala Gly Leu Gly Gly Leu Ser Leu Leu Gly Val Phe Cys Gly Gly Tyr  
 370 375 380  
 Leu Met Ala Leu Ala Val Leu Ser Pro Cys Pro Pro Leu Val Gly Thr  
 385 390 395 400  
 Ser Ala Gly Val Val Leu Val Val Leu Ser Trp Val Leu Cys Leu Gly  
 405 410 415  
 Val Phe Ser Tyr Val Lys Val Ala Ala Ser Ser Leu Leu His Gly Gly  
 420 425 430  
 Gly Arg Pro Ala Leu Leu Ala Ala Gly Val Ala Ile Gln Val Gly Ser  
 435 440 445  
 Leu Leu Gly Ala Val Ala Met Phe Pro Pro Thr Ser Ile Tyr His Val  
 450 455 460  
 Phe His Ser Arg Lys Asp Cys Ala Asp Pro Cys Asp Ser  
 465 470 475

&lt;210&gt; 81

&lt;211&gt; 445

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 81

Met Ala Ala Pro Thr Pro Ala Arg Pro Val Leu Thr His Leu Leu Val  
 1 5 10 15  
 Ala Leu Phe Gly Met Gly Ser Trp Ala Ala Val Asn Gly Ile Trp Val  
 20 25 30  
 Glu Leu Pro Val Val Val Lys Glu Leu Pro Glu Gly Trp Ser Leu Pro  
 35 40 45  
 Ser Tyr Val Ser Val Leu Val Ala Leu Gly Asn Leu Gly Leu Leu Val  
 50 55 60  
 Val Thr Leu Trp Arg Arg Leu Ala Pro Gly Lys Asp Glu Gln Val Pro  
 65 70 75 80  
 Ile Arg Val Val Gln Val Leu Gly Met Val Gly Thr Ala Leu Leu Ala  
 85 90 95  
 Ser Leu Trp His His Val Ala Pro Val Ala Gly Gln Leu His Ser Val  
 100 105 110  
 Ala Phe Leu Ala Leu Ala Phe Val Leu Ala Leu Ala Cys Cys Ala Pro  
 115 120 125  
 Asn Val Thr Phe Leu Pro Phe Leu Ser His Leu Pro Pro Arg Phe Leu  
 130 135 140  
 Arg Ser Phe Phe Leu Gly Gln Gly Leu Ser Ala Leu Leu Pro Cys Val  
 145 150 155 160  
 Leu Ala Leu Val Gln Gly Val Gly Arg Leu Glu Cys Pro Pro Ala Pro  
 165 170 175  
 Ile Asn Gly Thr Pro Gly Pro Pro Leu Asp Phe Leu Glu Arg Phe Pro  
 180 185 190  
 Ala Ser Thr Phe Phe Trp Ala Leu Thr Ala Leu Leu Val Ala Ser Ala  
 195 200 205  
 Ala Ala Phe Gln Gly Leu Leu Leu Leu Leu Pro Pro Pro Pro Ser Val  
 210 215 220  
 Pro Thr Gly Glu Leu Gly Ser Gly Leu Gln Val Gly Ala Pro Gly Ala  
 225 230 235 240  
 Glu Glu Glu Val Glu Glu Ser Ser Pro Leu Gln Glu Pro Pro Ser Gln  
 245 250 255  
 Ala Ala Gly Thr Thr Pro Gly Pro Asp Pro Lys Ala Tyr Gln Leu Leu  
 260 265 270  
 Ser Ala Arg Ser Ala Cys Leu Leu Gly Leu Leu Ala Ala Thr Asn Ala  
 275 280 285  
 Leu Thr Asn Gly Val Leu Pro Ala Val Gln Ser Phe Ser Cys Leu Pro  
 290 295 300  
 Tyr Gly Arg Leu Ala Tyr His Leu Ala Val Val Leu Gly Ser Ala Ala  
 305 310 315 320

Asn Pro Leu Ala Cys Phe Leu Ala Met Gly Val Leu Cys Arg Ser Leu  
                             325                            330                            335  
 Ala Gly Leu Gly Gly Leu Ser Leu Leu Gly Val Phe Cys Gly Gly Tyr  
                             340                            345                            350  
 Leu Met Ala Leu Ala Val Leu Ser Pro Cys Pro Pro Leu Val Gly Thr  
                             355                            360                            365  
 Ser Ala Gly Val Val Leu Val Val Leu Ser Trp Val Leu Cys Leu Gly  
                             370                            375                            380  
 Val Phe Ser Tyr Val Lys Val Ala Ala Ser Ser Leu Leu His Gly Gly  
                             385                            390                            395                            400  
 Gly Arg Pro Ala Leu Leu Ala Ala Gly Val Ala Ile Gln Val Gly Ser  
                             405                            410                            415  
 Leu Leu Gly Ala Val Ala Met Phe Pro Pro Thr Ser Ile Tyr His Val  
                             420                            425                            430  
 Phe His Ser Arg Lys Asp Cys Ala Asp Pro Cys Asp Ser  
                             435                            440                            445

<210> 82  
 <211> 264  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (196)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (224)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (233)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 82  
 Met Leu Arg Leu Phe Glu Thr Phe Leu Glu Thr Ala Pro Gln Leu Thr  
     1                            5                            10                            15

Leu Val Leu Ala Ile Met Leu Gln Ser Gly Arg Ala Glu Tyr Tyr Gln  
                             20                            25                            30

Trp Val Gly Ile Cys Thr Ser Phe Leu Gly Ile Ser Trp Ala Leu Leu  
                             35                            40                            45

Asp Tyr His Arg Ala Leu Arg Thr Cys Leu Pro Ser Lys Pro Leu Leu  
                             50                            55                            60

Gly Leu Gly Ser Ser Val Ile Tyr Phe Leu Trp Asn Leu Leu Leu Leu

65	70	75	80
Trp Pro Arg Val Leu Ala Val Ala Leu Phe Ser Ala Leu Phe Pro Ser	85	90	95
Tyr Val Ala Leu His Phe Leu Gly Leu Trp Leu Val Leu Leu Trp	100	105	110
Val Trp Leu Gln Gly Thr Asp Phe Met Pro Asp Pro Ser Ser Glu Trp	115	120	125
Leu Tyr Arg Val Thr Val Ala Thr Ile Leu Tyr Phe Ser Trp Phe Asn	130	135	140
Val Ala Glu Gly Arg Thr Arg Gly Arg Ala Ile Ile His Phe Ala Phe	145	150	155
Leu Leu Ser Asp Ser Ile Leu Leu Val Ala Thr Trp Val Thr His Ser	165	170	175
Ser Trp Leu Pro Ser Gly Ile Pro Leu Gln Leu Trp Leu Pro Val Gly	180	185	190
Cys Gly Cys Xaa Phe Leu Gly Leu Ala Leu Arg Leu Val Tyr Tyr His	195	200	205
Trp Leu His Pro Ser Cys Cys Trp Lys Pro Asp Pro Asp Gln Val Xaa	210	215	220
Gly Ala Arg Ser Leu Leu Ser Pro Xaa Gly Tyr Gln Leu Pro Gln Asn	225	230	235
Arg Arg Met Thr His Leu Ala Gln Lys Phe Phe Pro Lys Ala Lys Asp	245	250	255
Glu Ala Ala Ser Pro Val Lys Gly	260		

&lt;210&gt; 83

&lt;211&gt; 115

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (60)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (73)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (75)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids.

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (82)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 83

Leu Pro Tyr Pro Gly Leu Gly Gly His Arg Gly Cys Pro Leu Glu Phe  
 1 5 10 15

Phe Leu Pro Ser Pro Thr Pro Phe Ile Gln Phe Met Lys Gln Ile Phe  
 20 25 30

Ala Lys Ser Ser Leu Cys Ala Arg Asn Ile Ile Leu Ser Leu Gln Pro  
 35 40 45

Gly Thr Arg Pro Ala Thr Ser Leu Ala Ser Ser Xaa Thr Cys Thr Asn  
 50 55 60

Gln Ser Arg Val Arg Ser Gln Met Xaa Glu Xaa Arg Asp Ala Gln Leu  
 65 70 75 80

Trp Xaa Ala Pro Val Arg Thr Ser Gly Ile Ser Val Lys Leu Ala Trp  
 85 90 95

Pro Leu Leu Leu Leu Ser Arg Gly Cys Phe Ser Thr Lys Ser Leu Val  
 100 105 110

Ser Leu Val  
 115

&lt;210&gt; 84

&lt;211&gt; 264

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 84

Met Leu Arg Leu Phe Glu Thr Phe Leu Glu Thr Ala Pro Gln Leu Thr  
 1 5 10 15

Leu Val Leu Ala Ile Met Leu Gln Ser Gly Arg Ala Glu Tyr Tyr Gln  
 20 25 30

Trp Val Gly Ile Cys Thr Ser Phe Leu Gly Ile Ser Trp Ala Leu Leu  
 35 40 45

Asp Tyr His Arg Ala Leu Arg Thr Cys Leu Pro Ser Lys Pro Leu Leu  
 50 55 60

Gly Leu Gly Ser Ser Val Ile Tyr Phe Leu Trp Asn Leu Leu Leu Leu  
 65 70 75 80

Trp Pro Arg Val Leu Ala Val Ala Leu Phe Ser Ala Leu Phe Pro Ser  
 85 90 95

Tyr Val Ala Leu His Phe Leu Gly Leu Trp Leu Val Leu Leu Leu Trp  
 100 105 110

Val Trp Leu Gln Gly Thr Asp Phe Met Pro Asp Pro Ser Ser Glu Trp

115	120	125
Leu Tyr Arg Val Thr Val	Ala Thr Ile Leu Tyr Phe Ser Trp Phe Asn	
130	135	140
Val Ala Glu Gly Arg Thr Arg Gly Arg Ala Ile Ile His Phe Ala Phe		
145	150	155
Leu Leu Ser Asp Ser Ile Leu Leu Val Ala Thr Trp Val Thr His Ser		
165	170	175
Ser Trp Leu Pro Ser Gly Ile Pro Leu Gln Leu Trp Leu Pro Val Gly		
180	185	190
Cys Gly Cys Phe Phe Leu Gly Leu Ala Leu Arg Leu Val Tyr Tyr His		
195	200	205
Trp Leu His Pro Ser Cys Cys Trp Lys Pro Asp Pro Asp Gln Val Asp		
210	215	220
Gly Ala Arg Ser Leu Leu Ser Pro Glu Gly Tyr Gln Leu Pro Gln Asn		
225	230	235
Arg Arg Met Thr His Leu Ala Gln Lys Phe Phe Pro Lys Ala Lys Asp		
245	250	255
Glu Ala Ala Ser Pro Val Lys Gly		
260		

<210> 85  
 <211> 57  
 <212> PRT  
 <213> Homo sapiens

<400> 85  
 Met Asn Val Phe Leu Ser Leu Pro Leu Gly Ser Ser Leu Pro Pro Leu  
 1 5 10 15  
 Leu Phe Pro Pro Ser Leu Pro Ser Leu Phe Phe Pro Leu Pro Leu Tyr  
 20 25 30  
 Leu Ser Phe Ser Ala Pro Ser Pro Ala Thr Thr Pro Gly Phe Ile Ser  
 35 40 45  
 Leu Pro Gly His Ile Pro Ser Ser Ser  
 50 55

<210> 86  
 <211> 49  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (26)  
 <223> Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 86

Cys His Pro Gln Gln Pro Ser Cys Arg Ile Pro Leu Phe Val Leu Phe  
 1 5 10 15

Ile Ser Gln Thr Ser Gln His Leu Gly Xaa Ile Glu Gly Ala Tyr Val  
 20 25 30

Glu Ile Leu Gly Ala Gly Ser Pro Asn Thr Ser Glu Thr Ile Pro Asn  
 35 40 45

Asn

&lt;210&gt; 87

&lt;211&gt; 52

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (50)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 87

Lys Glu Pro Thr Leu Lys Tyr Trp Gly Arg Val Pro Pro Ile Leu Leu  
 1 5 10 15

Lys Leu Phe Gln Thr Ile Glu Lys Glu Gly His Leu Pro Asn Ser Phe  
 20 25 30

Tyr Glu Ala Ser Ile Ile Leu Ile Leu Lys Pro Gly Arg Asp Thr Ala  
 35 40 45

Lys Xaa Lys Lys  
 50

&lt;210&gt; 88

&lt;211&gt; 155

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 88

Met Phe Phe Phe Leu Phe Pro Trp Val Leu Leu Ser Leu Pro Ser Ser  
 1 5 10 15

Ser Leu Pro Leu Ser Leu Leu Tyr Ser Ser Leu Ser Leu Ser Ile Cys  
 20 25 30

Pro Ser Leu Leu Gln Val Leu Pro Gln Pro Gln Asp Ser Ser Ala Ser  
 35 40 45

Leu Asp Thr Ser His Pro Ala Pro Asp Arg Ser Pro Pro Ser Leu Leu  
 50 55 60

Ile Leu Arg Ala Leu Ser Ser Ile Cys Leu Ser Pro Cys Gln Arg Pro



65		70		75		80									
Cys	Cys	Ala	Pro	Gly	Gly	Ala	Thr	His	Leu	Pro	Gly	Asn	Ser	Thr	Phe
				85					90					95	
Ser	His	Ala	Pro	Asp	Cys	Ser	Leu	His	Ser	Ser	Arg	Leu	Ala	Gln	Ser
			100					105					110		
Pro	Val	Thr	His	Cys	Ser	Ser	Gly	Ser	Leu	Gly	Leu	Ser	Ala	His	Gly
		115					120					125			
His	Leu	His	Ala	His	Pro	Ser	Ile	Ser	Val	Ser	Pro	His	Leu	Ser	Leu
	130					135					140				
Ser	Ile	Ser	Asn	Pro	Cys	Ser	Ser	Thr	Lys	His					
145					150					155					

&lt;210&gt; 89

&lt;211&gt; 91

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (41)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 89

Val	Trp	Arg	Arg	Cys	Val	Ser	Trp	Arg	Ser	Ile	Arg	Ala	Gln	Val	Thr
1				5					10					15	

Phe	Pro	Glu	Asp	Phe	Leu	Ser	Leu	Ser	Ser	Ser	Val	Gln	Phe	Gln	Val
			20					25					30		

Ile	His	Val	Leu	Leu	Asp	Pro	Gly	Xaa	Thr	Gly	Ile	Ser	Thr	Asp	Leu
		35					40						45		

Leu	Ala	Ser	Phe	Gly	Leu	Glu	Tyr	His	Ser	Trp	Leu	Gly	Ala	Glu	Ala
	50					55					60				

Ala	Gly	Leu	Ile	Val	Ile	Tyr	His	Lys	Val	Ala	Arg	Lys	Leu	Pro	Arg
	65				70					75				80	

Gly	Val	Arg	Lys	Ala	Ala	Gly	Gly	Gly	Arg	Val
			85						90	

&lt;210&gt; 90

&lt;211&gt; 21

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 90

Asp	Leu	His	Ile	Lys	Leu	Leu	Glu	His	Tyr	Cys	Leu	Thr	Ser	Cys	Lys
1				5					10					15	

Lys Val Leu Gln Leu

20

<210> 91  
 <211> 67  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (13)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 91  
 Pro Gln Ser Pro Gln Arg Gly Cys Tyr Ser Met Leu Xaa Val Leu Ser  
 1 5 10 15  
 Val Ser His Pro Gln Pro Asn Lys Trp Arg Cys Val Val Pro Arg Gly  
 20 25 30  
 Pro Phe Ser His Cys Leu Ala Ser Arg Arg Gly Val Leu Gln Gly Tyr  
 35 40 45  
 Ser Phe Val Cys Thr Cys Arg Leu Val Gly Pro Glu Phe Phe Ser His  
 50 55 60  
 Val Gln Glu  
 65

<210> 92  
 <211> 21  
 <212> PRT  
 <213> Homo sapiens

<400> 92  
 Asp Leu His Ile Lys Leu Leu Glu His Tyr Cys Leu Thr Ser Cys Lys  
 1 5 10 15  
 Lys Val Leu Gln Leu  
 20

<210> 93  
 <211> 67  
 <212> PRT  
 <213> Homo sapiens

<400> 93  
 Asp Gly Ala Pro Gly Pro Arg Val Gly His Gly His Pro Gly Trp Leu  
 1 5 10 15  
 Gly Arg Arg Arg Gln Ala Leu His Val Leu Gln Leu Gly Met Trp Val  
 20 25 30  
 Arg Glu Gly Ile Trp Phe Cys Tyr Leu Ala Val Val Phe Ser His Pro  
 35 40 45

Ser Phe Leu Thr Ile Lys Ser His Leu Gly Leu Glu Lys Lys Lys Lys  
 50 55 60  
 Lys Thr Arg  
 65

<210> 94  
 <211> 44  
 <212> PRT  
 <213> Homo sapiens

<400> 94  
 Met Leu Ser Ser Ile Leu Ser Gln Leu Met Val Ser Lys Pro Trp Gly  
 1 5 10 15  
 Val Phe Ile Ser Phe Ser Phe Ile Ser Leu Ser Phe Tyr His Ala Ile  
 20 25 30  
 Ser Ile Ser Ser Val Pro Ser Gly Arg Gln Val Val  
 35 40

<210> 95  
 <211> 150  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (12)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (38)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (43)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (145)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 95  
 Cys Pro Pro Pro Pro Lys Arg Gly Gly Ile Glu Xaa Glu Leu Gly Lys  
 1 5 10 15  
 Leu Trp Pro Thr Phe Glu Thr Phe Arg Ala Asn Arg Arg Thr Met Leu  
 20 25 30  
 Leu Glu Pro Leu Gly Xaa Pro Gly Gly Gly Xaa Arg Pro Phe Trp Lys  
 35 40 45

Arg Ala Arg Gly Val Thr Ser Glu Ala Ile Val Thr Gly Arg Cys Asn  
 50 55 60  
 His Cys Pro Asp Cys Gly Lys Ala Trp Arg Glu Gln Gly Glu Ser Thr  
 65 70 75 80  
 Pro Ser Thr Cys Pro Phe Asp Pro Leu Thr Cys Trp Trp Leu Ala Leu  
 85 90 95  
 Ala Lys Pro Glu Thr Gly Gly Gln Glu Pro Leu Ser Val Ala Ala Tyr  
 100 105 110  
 Gly Gly Gln Pro Ser Glu Val Lys Ala Gly Gln Lys Val Glu Lys Gly  
 115 120 125  
 Leu Gly Gly Thr His Gly Glu Gln Ser Thr Lys Phe Thr Pro Phe Val  
 130 135 140  
 Xaa Trp His Trp Lys Ile  
 145 150

<210> 96  
 <211> 35  
 <212> PRT  
 <213> Homo sapiens

<400> 96  
 Met Val Ser Lys Pro Trp Gly Val Phe Ile Ser Phe Ser Phe Ile Ser  
 1 5 10 15  
 Leu Ser Phe Tyr His Ala Ile Ser Ile Ser Ser Val Pro Ser Gly Arg  
 20 25 30  
 Gln Val Val  
 35

<210> 97  
 <211> 13  
 <212> PRT  
 <213> Homo sapiens

<400> 97  
 Met Lys Ser Leu His Gly Arg Leu Leu Trp Gln Ser Ala  
 1 5 10

<210> 98  
 <211> 13  
 <212> PRT  
 <213> Homo sapiens

<400> 98  
 Met Lys Ser Leu His Gly Arg Leu Leu Trp Gln Ser Ala  
 1 5 10

<210> 99  
 <211> 353  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (260)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 99

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Met Pro Trp Pro Leu Leu Leu Leu Ala Val Ser Gly Ala Gln Thr
 1              5              10              15

Thr Arg Pro Cys Phe Pro Gly Cys Gln Cys Glu Val Glu Thr Phe Gly
              20              25              30

Leu Phe Asp Ser Phe Ser Leu Thr Arg Val Asp Cys Ser Gly Leu Gly
              35              40              45

Pro His Ile Met Pro Val Pro Ile Pro Leu Asp Thr Ala His Leu Asp
 50              55              60

Leu Ser Ser Asn Arg Leu Glu Met Val Asn Glu Ser Val Leu Ala Gly
 65              70              75              80

Pro Gly Tyr Thr Thr Leu Ala Gly Leu Asp Leu Ser His Asn Leu Leu
              85              90              95

Thr Ser Ile Ser Pro Thr Ala Phe Ser Arg Leu Arg Tyr Leu Glu Ser
              100              105              110

Leu Asp Leu Ser His Asn Gly Leu Thr Ala Leu Pro Ala Glu Ser Phe
              115              120              125

Thr Ser Ser Pro Leu Ser Asp Val Asn Leu Ser His Asn Gln Leu Arg
              130              135              140

Glu Val Ser Val Ser Ala Phe Thr Thr His Ser Gln Gly Arg Ala Leu
145              150              155              160

His Val Asp Leu Ser His Asn Leu Ile His Arg Leu Val Pro His Pro
              165              170              175

Thr Arg Ala Gly Leu Pro Ala Pro Thr Ile Gln Ser Leu Asn Leu Ala
              180              185              190

Trp Asn Arg Leu His Ala Val Pro Asn Leu Arg Asp Leu Pro Leu Arg
              195              200              205

Tyr Leu Ser Leu Asp Gly Asn Pro Leu Ala Val Ile Gly Pro Gly Ala
 210              215              220

Phe Ala Gly Leu Gly Gly Leu Thr His Leu Ser Leu Ala Ser Leu Gln
225              230              235              240

Arg Leu Pro Glu Leu Ala Pro Ser Gly Phe Arg Glu Leu Pro Gly Leu

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245										250					255				
Gln	Val	Leu	Xaa	Leu	Ser	Gly	Asn	Pro	Lys	Leu	Asn	Trp	Ala	Gly	Ala				
			260					265					270						
Glu	Val	Phe	Ser	Gly	Leu	Ser	Ser	Leu	Gln	Glu	Leu	Asp	Leu	Ser	Gly				
		275					280					285							
Thr	Asn	Leu	Val	Pro	Leu	Pro	Glu	Ala	Leu	Leu	Leu	His	Leu	Pro	Ala				
	290					295						300							
Leu	Gln	Ser	Val	Ser	Val	Gly	Gln	Asp	Val	Arg	Cys	Arg	Arg	Leu	Val				
305					310					315					320				
Arg	Glu	Gly	Thr	Tyr	Pro	Arg	Arg	Pro	Gly	Ser	Ser	Pro	Lys	Val	Ala				
				325					330					335					
Leu	His	Cys	Val	Asp	Thr	Arg	Glu	Ser	Ala	Ala	Arg	Gly	Pro	Thr	Ile				
		340						345					350						
Leu																			

<210> 100  
 <211> 353  
 <212> PRT  
 <213> Homo sapiens

<400> 100  
 Met Pro Trp Pro Leu Leu Leu Leu Leu Ala Val Ser Gly Ala Gln Thr  
 1 5 10 15  
 Thr Arg Pro Cys Phe Pro Gly Cys Gln Cys Glu Val Glu Thr Phe Gly  
 20 25 30  
 Leu Phe Asp Ser Phe Ser Leu Thr Arg Val Asp Cys Ser Gly Leu Gly  
 35 40 45  
 Pro His Ile Met Pro Val Pro Ile Pro Leu Asp Thr Ala His Leu Asp  
 50 55 60  
 Leu Ser Ser Asn Arg Leu Glu Met Val Asn Glu Ser Val Leu Ala Gly  
 65 70 75 80  
 Pro Gly Tyr Thr Thr Leu Ala Gly Leu Asp Leu Ser His Asn Leu Leu  
 85 90 95  
 Thr Ser Ile Ser Pro Thr Ala Phe Ser Arg Leu Arg Tyr Leu Glu Ser  
 100 105 110  
 Leu Asp Leu Ser His Asn Gly Leu Thr Ala Leu Pro Ala Glu Ser Phe  
 115 120 125  
 Thr Ser Ser Pro Leu Ser Asp Val Asn Leu Ser His Asn Gln Leu Arg  
 130 135 140  
 Glu Val Ser Val Ser Ala Phe Thr Thr His Ser Gln Gly Arg Ala Leu  
 145 150 155 160

His Val Asp Leu Ser His Asn Leu Ile His Arg Leu Val Pro His Pro  
 165 170 175  
 Thr Arg Ala Gly Leu Pro Ala Pro Thr Ile Gln Ser Leu Asn Leu Ala  
 180 185 190  
 Trp Asn Arg Leu His Ala Val Pro Asn Leu Arg Asp Leu Pro Leu Arg  
 195 200 205  
 Tyr Leu Ser Leu Asp Gly Asn Pro Leu Ala Val Ile Gly Pro Gly Ala  
 210 215 220  
 Phe Ala Gly Leu Gly Gly Leu Thr His Leu Ser Leu Ala Ser Leu Gln  
 225 230 235 240  
 Arg Leu Pro Glu Leu Ala Pro Ser Gly Phe Arg Glu Leu Pro Gly Leu  
 245 250 255  
 Gln Val Leu Asp Leu Ser Gly Asn Pro Lys Leu Asn Trp Ala Gly Ala  
 260 265 270  
 Glu Val Phe Ser Gly Leu Ser Ser Leu Gln Glu Leu Asp Leu Ser Gly  
 275 280 285  
 Thr Asn Leu Val Pro Leu Pro Glu Ala Leu Leu Leu His Leu Pro Ala  
 290 295 300  
 Leu Gln Ser Val Ser Val Gly Gln Asp Val Arg Cys Arg Arg Leu Val  
 305 310 315 320  
 Arg Glu Gly Thr Tyr Pro Arg Arg Pro Gly Ser Ser Pro Lys Val Ala  
 325 330 335  
 Leu His Cys Val Asp Thr Arg Glu Ser Ala Ala Arg Gly Pro Thr Ile  
 340 345 350

Leu

<210> 101

<211> 285

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (259)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (262)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (280)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 101

Met	Gly	Phe	Leu	Gln	Leu	Leu	Val	Val	Ala	Val	Leu	Ala	Ser	Glu	His	1	5	10	15
Arg	Val	Ala	Gly	Ala	Ala	Glu	Val	Phe	Gly	Asn	Ser	Ser	Glu	Gly	Leu	20	25	30	
Ile	Glu	Phe	Ser	Val	Gly	Lys	Phe	Arg	Tyr	Phe	Glu	Leu	Asn	Arg	Pro	35	40	45	
Phe	Pro	Glu	Glu	Ala	Ile	Leu	His	Asp	Ile	Ser	Ser	Asn	Val	Thr	Phe	50	55	60	
Leu	Ile	Phe	Gln	Ile	His	Ser	Gln	Tyr	Gln	Asn	Thr	Thr	Val	Ser	Phe	65	70	75	80
Ser	Pro	Thr	Leu	Leu	Ser	Asn	Ser	Ser	Glu	Thr	Gly	Thr	Ala	Ser	Gly	85	90	95	
Leu	Val	Phe	Ile	Leu	Arg	Pro	Glu	Gln	Ser	Thr	Cys	Thr	Trp	Tyr	Leu	100	105	110	
Gly	Thr	Ser	Gly	Ile	Gln	Pro	Val	Gln	Asn	Met	Ala	Ile	Leu	Leu	Ser	115	120	125	
Tyr	Ser	Glu	Arg	Asp	Pro	Val	Pro	Gly	Gly	Cys	Asn	Leu	Glu	Phe	Asp	130	135	140	
Leu	Asp	Ile	Asp	Pro	Asn	Ile	Tyr	Leu	Glu	Tyr	Asn	Phe	Phe	Glu	Thr	145	150	155	160
Thr	Ile	Lys	Phe	Ala	Pro	Ala	Asn	Leu	Gly	Tyr	Ala	Arg	Gly	Val	Asp	165	170	175	
Pro	Pro	Pro	Cys	Asp	Ala	Gly	Thr	Asp	Gln	Asp	Ser	Arg	Trp	Arg	Leu	180	185	190	
Gln	Tyr	Asp	Val	Tyr	Gln	Tyr	Phe	Leu	Pro	Glu	Asn	Asp	Leu	Thr	Glu	195	200	205	
Glu	Met	Leu	Leu	Lys	His	Leu	Gln	Arg	Met	Val	Ser	Val	Pro	Gln	Val	210	215	220	
Lys	Ala	Ser	Ala	Leu	Lys	Val	Val	Thr	Leu	Thr	Ala	Asn	Asp	Lys	Thr	225	230	235	240
Ser	Val	Ser	Phe	Ser	Ser	Leu	Pro	Gly	Gln	Gly	Val	Ile	Tyr	Asn	Val	245	250	255	
Ile	Val	Xaa	Gly	Pro	Xaa	Ser	Lys	Tyr	Ile	Cys	Cys	Leu	His	Ser	Cys	260	265	270	
Ser	His	Ile	Arg	Leu	Gln	Leu	Xaa	Arg	Ala	Gly	Arg	Gly	275	280	285				

<210> 102



&lt;211&gt; 417

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 102

Leu Phe Leu Phe Ser Lys Tyr Thr His Ser Ile Arg Ile Gln Leu Phe  
 1 5 10 15  
 Pro Phe Leu Arg Gly Val Asp Pro Pro Pro Cys Asp Ala Gly Thr Asp  
 20 25 30  
 Gln Asp Ser Arg Trp Arg Leu Gln Tyr Asp Val Tyr Gln Tyr Phe Leu  
 35 40 45  
 Pro Glu Asn Asp Leu Thr Glu Glu Met Leu Leu Lys His Leu Gln Arg  
 50 55 60  
 Met Val Ser Val Pro Gln Val Lys Ala Ser Ala Leu Lys Val Val Thr  
 65 70 75 80  
 Leu Thr Ala Asn Asp Lys Thr Ser Val Ser Phe Ser Ser Leu Pro Gly  
 85 90 95  
 Gln Gly Val Ile Tyr Asn Val Ile Val Trp Asp Pro Phe Leu Asn Thr  
 100 105 110  
 Ser Ala Ala Tyr Ile Pro Ala His Thr Tyr Ala Cys Ser Phe Glu Ala  
 115 120 125  
 Gly Glu Gly Ser Cys Ala Ser Leu Gly Arg Val Ser Ser Lys Val Phe  
 130 135 140  
 Phe Thr Leu Phe Ala Leu Leu Gly Phe Phe Ile Cys Phe Phe Gly His  
 145 150 155 160  
 Arg Phe Trp Lys Thr Glu Leu Phe Phe Ile Gly Phe Ile Ile Met Gly  
 165 170 175  
 Phe Phe Phe Tyr Ile Leu Ile Thr Arg Leu Thr Pro Ile Lys Tyr Asp  
 180 185 190  
 Val Asn Leu Ile Leu Thr Ala Val Thr Gly Ser Val Gly Gly Met Phe  
 195 200 205  
 Leu Val Ala Val Trp Trp Arg Phe Gly Ile Leu Ser Ile Cys Met Leu  
 210 215 220  
 Cys Val Gly Leu Val Leu Gly Phe Leu Ile Ser Ser Val Thr Phe Phe  
 225 230 235 240  
 Thr Pro Leu Gly Asn Leu Lys Ile Phe His Asp Asp Gly Val Phe Trp  
 245 250 255  
 Val Thr Phe Ser Cys Ile Ala Ile Leu Ile Pro Val Val Phe Met Gly  
 260 265 270  
 Cys Leu Arg Ile Leu Asn Ile Leu Thr Cys Gly Val Ile Gly Ser Tyr  
 275 280 285  
 Ser Val Val Leu Ala Ile Asp Ser Tyr Trp Ser Thr Ser Leu Ser Tyr

290                      295                      300  
 Ile Thr Leu Asn Val Leu Lys Arg Ala Leu Asn Lys Asp Phe His Arg  
 305                      310                      315                      320  
 Ala Phe Thr Asn Val Pro Phe Gln Thr Asn Asp Phe Ile Ile Leu Ala  
                          325                      330                      335  
 Val Trp Gly Met Leu Ala Val Ser Gly Ile Thr Leu Gln Ile Arg Arg  
                          340                      345                      350  
 Glu Arg Gly Arg Pro Phe Phe Pro Pro His Pro Tyr Lys Leu Trp Lys  
                          355                      360                      365  
 Gln Glu Arg Glu Arg Arg Val Thr Asn Ile Leu Asp Pro Ser Tyr His  
                          370                      375                      380  
 Ile Pro Pro Leu Arg Glu Arg Leu Tyr Gly Arg Leu Thr Gln Ile Lys  
 385                      390                      395                      400  
 Gly Leu Phe Gln Lys Glu Gln Pro Ala Gly Glu Arg Thr Pro Leu Leu  
                          405                      410                      415

Leu

<210> 103

<211> 363

<212> PRT

<213> Homo sapiens

<400> 103

Met Gly Phe Leu Gln Leu Leu Val Val Ala Val Leu Ala Ser Glu His  
 1                      5                      10                      15

Arg Val Ala Gly Ala Ala Glu Val Phe Gly Asn Ser Ser Glu Gly Leu  
                          20                      25                      30

Ile Glu Phe Ser Val Gly Lys Phe Arg Tyr Phe Glu Leu Asn Arg Pro  
                          35                      40                      45

Phe Pro Glu Glu Ala Ile Leu His Asp Ile Ser Ser Asn Val Thr Phe  
                          50                      55                      60

Leu Ile Phe Gln Ile His Ser Gln Tyr Gln Asn Thr Thr Val Ser Phe  
                          65                      70                      75                      80

Ser Pro Thr Leu Leu Ser Asn Ser Ser Glu Thr Gly Thr Ala Ser Gly  
                          85                      90                      95

Leu Val Phe Ile Leu Arg Pro Glu Gln Ser Thr Cys Thr Trp Tyr Leu  
                          100                      105                      110

Gly Thr Ser Gly Ile Gln Pro Val Gln Asn Met Ala Ile Leu Leu Ser  
                          115                      120                      125

Tyr Ser Glu Arg Asp Pro Val Pro Gly Gly Cys Asn Leu Glu Phe Asp  
                          130                      135                      140

Leu Asp Ile Asp Pro Asn Ile Tyr Leu Glu Tyr Asn Phe Phe Glu Thr  
 145 150 155 160  
 Thr Ile Lys Phe Ala Pro Ala Asn Leu Gly Tyr Ala Arg Gly Val Asp  
 165 170 175  
 Pro Pro Pro Cys Asp Ala Gly Thr Asp Gln Asp Ser Arg Trp Arg Leu  
 180 185 190  
 Gln Tyr Asp Val Tyr Gln Tyr Phe Leu Pro Glu Asn Asp Leu Thr Glu  
 195 200 205  
 Glu Met Leu Leu Lys His Leu Gln Arg Met Val Ser Val Pro Gln Val  
 210 215 220  
 Lys Ala Ser Ala Leu Lys Val Val Thr Leu Thr Ala Asn Asp Lys Thr  
 225 230 235 240  
 Ser Val Ser Phe Ser Ser Leu Pro Gly Gln Gly Val Ile Tyr Asn Val  
 245 250 255  
 Ile Val Trp Asp Leu Phe Leu Asn Thr Ser Ala Ala Tyr Ile Pro Ala  
 260 265 270  
 His Thr Tyr Ala Cys Ser Phe Glu Ala Gly Glu Gly Ser Cys Ala Ser  
 275 280 285  
 Leu Gly Arg Val Ser Ser Lys Val Phe Phe Thr Leu Phe Ala Leu Leu  
 290 295 300  
 Gly Phe Phe Ile Cys Phe Phe Gly Gln Arg Phe Trp Lys Thr Glu Leu  
 305 310 315 320  
 Phe Phe Ile Gly Phe Ile Ile Met Gly Phe Phe Phe Tyr Ile Leu Ile  
 325 330 335  
 Thr Arg Leu Thr Pro Ile Lys Tyr Asp Ala Glu His Thr Asp Leu Trp  
 340 345 350  
 Ser His Trp Leu Leu Phe Gly Gly Phe Ser His  
 355 360

&lt;210&gt; 104

&lt;211&gt; 79

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (42)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (49)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids.

<220>  
 <221> SITE  
 <222> (69)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (76)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 104  
 Met Leu Val Lys Gly Glu Gly Val Arg Leu Val Leu Arg Leu Leu Gly  
           1                  5                  10                  15  
 Arg Asn Gly Leu His Leu Ala Pro Leu Pro Ala Leu Leu Leu His Phe  
                   20                  25                  30  
 Leu Met Leu Pro Leu Ser Ala Pro Val Xaa Tyr Ser Leu Pro Ala Gly  
           35                  40                  45  
 Xaa Cys Leu Gln Gly Thr Gly Ser Ser Ser Phe Tyr Ser Val Lys Phe  
           50                  55                  60  
 Ser Gly Ser Leu Xaa Gly Gly Lys Gly Lys Pro Xaa Asn Trp Pro  
           65                  70                  75

<210> 105  
 <211> 71  
 <212> PRT  
 <213> Homo sapiens

<400> 105  
 Met Leu Val Lys Gly Glu Gly Val Arg Leu Val Leu Arg Leu Leu Gly  
           1                  5                  10                  15  
 Arg Asn Gly Leu His Leu Ala Pro Leu Pro Ala Leu Leu Leu His Phe  
                   20                  25                  30  
 Leu Met Leu Pro Leu Ser Ala Pro Val Ala Tyr Ser Leu Pro Ala Gly  
           35                  40                  45  
 Ala Cys Leu Gln Gly Thr Gly Ser Ser Ser Leu Leu Leu Cys Gln Val  
           50                  55                  60  
 Gln Leu Leu Thr Ala Arg Glu  
           65                  70

<210> 106  
 <211> 31  
 <212> PRT  
 <213> Homo sapiens

<400> 106  
 Met Phe Glu Ala Leu Trp Ala Thr Asp Tyr Leu Cys Cys Leu Phe Leu  
           1                  5                  10                  15

Phe Val Ser Phe Phe Arg Pro Leu Gln Lys Cys Lys Asn His Ser  
                   20                                  25                                  30

<210> 107

<211> 26

<212> PRT

<213> Homo sapiens

<400> 107

Glu Ile Met Thr Arg Thr Asp Trp Val Lys Met Trp Phe Val Phe Leu  
       1                                  5                                  10                                  15

Leu Gln Leu Ala Pro Ala Cys Pro Pro Arg  
                   20                                  25

<210> 108

<211> 31

<212> PRT

<213> Homo sapiens

<400> 108

Met Phe Glu Ala Leu Trp Ala Thr Asp Tyr Leu Cys Cys Leu Phe Leu  
       1                                  5                                  10                                  15

Phe Val Ser Phe Phe Arg Pro Leu Gln Lys Cys Lys Asn His Ser  
                   20                                  25                                  30

<210> 109

<211> 118

<212> PRT

<213> Homo sapiens

<400> 109

Met Glu Phe Val Ser Gly Gly Lys Thr Glu Ile Leu Met Leu Phe Thr  
       1                                  5                                  10                                  15

Leu Leu Val Ser Cys Tyr Val Phe Leu Pro Leu Ala Leu Pro Cys Phe  
                   20                                  25                                  30

Ala Phe Phe Phe Ser Phe Trp Pro Ile Pro Phe Tyr Met Cys Pro Gln  
                   35                                  40                                  45

Gln Arg Trp Gly Asp Thr Glu His Pro Gly Ser Phe Pro Ala Leu Leu  
                   50                                  55                                  60

Gly Arg Pro Arg Leu Gln Ala Pro Ala Val Glu Thr Leu Lys Gly Asn  
       65                                  70                                  75                                  80

Lys Gln Pro Ser Thr Leu Pro Asp Pro Arg Leu Phe Arg Glu Ala Ala  
                   85                                  90                                  95

His Phe His Pro Gly Pro Arg Thr Pro Ser Leu Cys Pro Thr Arg Ile  
                   100                                  105                                  110

Ser Leu Asn Gly Arg Asp  
115

<210> 110  
<211> 157  
<212> PRT  
<213> Homo sapiens

<400> 110  
Ser Cys Leu Pro Pro Leu Pro Leu Asn Leu Pro Leu Pro Pro Cys Leu  
1 5 10 15  
Cys Pro Leu Leu Gln Leu Asn Ala Ala Met Thr Arg Lys Glu Lys Thr  
20 25 30  
Lys Glu Gly Gln Arg Ala Ala Gln Phe Ser Ala Gly Ala Asp Ala Gly  
35 40 45  
Ser Gly Gly Gly Leu Ser Arg Gln Lys Asp Thr Lys Arg Pro Met Leu  
50 55 60  
Leu Val Ile His Asp Val Val Leu Glu Leu Leu Thr Ser Ser Asp Cys  
65 70 75 80  
His Ala Asn Pro Arg Lys Tyr Pro Thr Cys Gln Lys Ser Glu Val Leu  
85 90 95  
Gly Val Ser Ile Tyr Val Ser Ile Cys Pro Ser Thr Arg Pro Arg Asp  
100 105 110  
Lys Asn Lys Thr Lys Lys Arg Cys Gln Val Leu Glu Ala Val Leu Val  
115 120 125  
Ser Lys Pro Ser Gly Ser Cys His Gln Gly Ser Phe Glu Ile Val Pro  
130 135 140  
His Val Lys Gly Asn Leu Ala Phe Thr Ser Ser Asn His  
145 150 155

<210> 111  
<211> 118  
<212> PRT  
<213> Homo sapiens

<400> 111  
Met Glu Phe Val Ser Gly Gly Lys Thr Glu Ile Leu Met Leu Phe Thr  
1 5 10 15  
Leu Leu Val Ser Cys Tyr Val Phe Leu Pro Leu Ala Leu Pro Cys Phe  
20 25 30  
Ala Phe Phe Phe Ser Phe Trp Pro Ile Pro Phe Tyr Met Cys Pro Gln  
35 40 45  
Gln Arg Trp Gly Asp Thr Glu His Pro Gly Ser Phe Pro Ala Leu Leu  
50 55 60

Gly Arg Pro Arg Leu Gln Ala Pro Ala Val Glu Thr Leu Lys Gly Asn  
65 70 75 80

Lys Gln Pro Ser Thr Leu Pro Asp Pro Arg Leu Phe Arg Glu Ala Ala  
85 90 95

His Phe His Pro Gly Pro Arg Thr Pro Ser Leu Cys Pro Thr Arg Ile  
100 105 110

Ser Leu Asn Gly Arg Asp  
115

<210> 112

<211> 74

<212> PRT

<213> Homo sapiens

<400> 112

Leu Ala Leu His Arg Cys Ser Leu Ser Cys Leu Gln Val Ser Val Cys  
1 5 10 15

Gly Val Gly Tyr Gly Glu Glu Asn Leu His Gly Gly Pro Pro Gly Leu  
20 25 30

Val Val Gln Ala Val Pro Arg His Ile Leu Ile Pro Ser Met Gly His  
35 40 45

Leu Lys Met Asn Asn Asn Ser Gln Asn Phe Cys Glu Ile Lys Ser Ser  
50 55 60

Phe Lys Arg Ser His Leu Ser Lys Arg Phe  
65 70

<210> 113

<211> 199

<212> PRT

<213> Homo sapiens

<400> 113

Met Lys Ser Gly Leu Trp Tyr Phe Phe Leu Phe Cys Leu Arg Ile Lys  
1 5 10 15

Val Leu Thr Gly Glu Ile Asn Gly Ser Ala Asn Tyr Glu Met Phe Ile  
20 25 30

Phe His Asn Gly Gly Val Gln Ile Leu Cys Lys Tyr Pro Asp Ile Val  
35 40 45

Gln Gln Phe Lys Met Gln Leu Leu Lys Gly Gly Gln Ile Leu Cys Asp  
50 55 60

Leu Thr Lys Thr Lys Gly Ser Gly Asn Thr Val Ser Ile Lys Ser Leu  
65 70 75 80

Lys Phe Cys His Ser Gln Leu Ser Asn Asn Ser Val Ser Phe Phe Leu

85 90 95  
 Tyr Asn Leu Asp His Ser His Ala Asn Tyr Tyr Phe Cys Asn Leu Ser  
 100 105 110  
 Ile Phe Asp Pro Pro Pro Phe Lys Val Thr Leu Thr Gly Gly Tyr Leu  
 115 120 125  
 His Ile Tyr Glu Ser Gln Leu Cys Cys Gln Leu Lys Phe Trp Leu Pro  
 130 135 140  
 Ile Gly Cys Ala Ala Phe Val Val Val Cys Ile Leu Gly Cys Ile Leu  
 145 150 155 160  
 Ile Cys Trp Leu Thr Lys Lys Lys Tyr Ser Ser Ser Val His Asp Pro  
 165 170 175  
 Asn Gly Glu Tyr Met Phe Met Arg Ala Val Asn Thr Ala Lys Lys Ser  
 180 185 190  
 Arg Leu Thr Asp Val Thr Leu  
 195

<210> 114  
 <211> 199  
 <212> PRT  
 <213> Homo sapiens

<400> 114  
 Met Lys Ser Gly Leu Trp Tyr Phe Phe Leu Phe Cys Leu Arg Ile Lys  
 1 5 10 15  
 Val Leu Thr Gly Glu Ile Asn Gly Ser Ala Asn Tyr Glu Met Phe Ile  
 20 25 30  
 Phe His Asn Gly Gly Val Gln Ile Leu Cys Lys Tyr Pro Asp Ile Val  
 35 40 45  
 Gln Gln Phe Lys Met Gln Leu Leu Lys Gly Gly Gln Ile Leu Cys Asp  
 50 55 60  
 Leu Thr Lys Thr Lys Gly Ser Gly Asn Thr Val Ser Ile Lys Ser Leu  
 65 70 75 80  
 Lys Phe Cys His Ser Gln Leu Ser Asn Asn Ser Val Ser Phe Phe Leu  
 85 90 95  
 Tyr Asn Leu Asp His Ser His Ala Asn Tyr Tyr Phe Cys Asn Leu Ser  
 100 105 110  
 Ile Phe Asp Pro Pro Pro Phe Lys Val Thr Leu Thr Gly Gly Tyr Leu  
 115 120 125  
 His Ile Tyr Glu Ser Gln Leu Cys Cys Gln Leu Lys Phe Trp Leu Pro  
 130 135 140  
 Ile Gly Cys Ala Ala Phe Val Val Val Cys Ile Leu Gly Cys Ile Leu  
 145 150 155 160



Ile Cys Trp Leu Thr Lys Lys Lys Tyr Ser Ser Ser Val His Asp Pro  
                           165                          170                          175  
 Asn Gly Glu Tyr Met Phe Met Arg Ala Val Asn Thr Ala Lys Lys Ser  
                           180                          185                          190  
 Arg Leu Thr Asp Val Thr Leu  
                           195

<210> 115  
 <211> 91  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (12)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (49)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (51)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 115  
 Met Val Leu Arg Gly Trp Gly Leu Ala Trp Ser Xaa Ser Pro Val Val  
   1                          5                          10                          15  
 Cys Gly Tyr Ser Gly Asp Met Lys Gly Val Cys Trp Gly Arg Ser Asp  
                           20                          25                          30  
 His Ser Leu Leu Pro Ser Glu Ile Leu Leu Pro Pro Ala Pro Cys Pro  
                           35                          40                          45  
 Xaa Ser Xaa Val Leu His Asn Pro Pro Pro Thr Pro His Leu Pro Ser  
                           50                          55                          60  
 Pro Val Leu Val Arg Ile Gln Glu Ala Pro Thr Trp Ala Gln Arg Ser  
   65                          70                          75                          80  
 Ser Leu Gly Ala Ser Pro Leu His Lys Gly Asp  
                           85                          90

<210> 116  
 <211> 6  
 <212> PRT  
 <213> Homo sapiens

<400> 116  
 Trp Ala Leu Pro Met Ser

1

5

&lt;210&gt; 117

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 117

Gly Cys Ser Leu Tyr Asn Ser Phe Asn Asn Leu Leu Cys Leu

1

5

10

&lt;210&gt; 118

&lt;211&gt; 4

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 118

Leu Arg Glu Leu

1

&lt;210&gt; 119

&lt;211&gt; 91

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 119

Met Val Leu Arg Gly Trp Gly Leu Ala Trp Ser Leu Ser Pro Val Val

1

5

10

15

Cys Gly Tyr Ser Gly Asp Met Lys Gly Val Cys Trp Gly Arg Ser Asp

20

25

30

His Ser Leu Leu Pro Ser Glu Ile Leu Leu Pro Pro Ala Pro Cys Pro

35

40

45

Ser Ser Ala Val Leu His Asn Pro Pro Pro Thr Pro His Leu Pro Ser

50

55

60

Pro Val Leu Val Arg Ile Gln Glu Ala Pro Thr Trp Ala Gln Arg Ser

65

70

75

80

Ser Leu Gly Ala Ser Pro Leu His Lys Gly Asp

85

90

&lt;210&gt; 120

&lt;211&gt; 75

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 120

Glu Asp Met Pro Arg Arg Lys Glu Glu Leu Thr Asp Tyr Gln Lys Lys

1

5

10

15

Lys Val Ile Leu Gln Asn Leu Lys His Ser Leu Phe Leu Ser Leu Leu  
                     20                    25                    30  
 Ser His Tyr Phe Tyr Ser Asn Pro Leu Glu Tyr Leu His Phe Ala Ser  
                     35                    40                    45  
 Glu Gln Arg Asp Lys Phe Phe Ser His His Val Cys Thr Gly Val Val  
                     50                    55                    60  
 Leu Ile Leu Asp Ile Ala Gly Thr Asn Phe Ser  
                     65                    70                    75

<210> 121  
 <211> 56  
 <212> PRT  
 <213> Homo sapiens

<400> 121  
 Met Met Ile Tyr Phe Ala Leu Leu Leu Ala Ser Leu Phe Phe Leu Leu  
   1                    5                    10                    15  
 Lys Val Lys Ser His Phe Gly Cys Lys Asn Val Thr Thr Thr Ser Ala  
                     20                    25                    30  
 Arg Ile Phe Leu Lys Pro Leu Cys Thr Pro Lys Ser Ile Phe Pro Leu  
                     35                    40                    45  
 Ser Arg Tyr Gly Arg Met Ser Ser  
                     50                    55

<210> 122  
 <211> 56  
 <212> PRT  
 <213> Homo sapiens

<400> 122  
 Met Met Ile Tyr Phe Ala Leu Leu Leu Ala Ser Leu Phe Phe Leu Leu  
   1                    5                    10                    15  
 Lys Val Lys Ser His Phe Gly Cys Lys Asn Val Thr Thr Thr Ser Ala  
                     20                    25                    30  
 Arg Ile Phe Leu Lys Pro Leu Cys Thr Pro Lys Ser Ile Phe Pro Leu  
                     35                    40                    45  
 Ser Arg Tyr Gly Arg Met Ser Ser  
                     50                    55

<210> 123  
 <211> 59  
 <212> PRT  
 <213> Homo sapiens

&lt;400&gt; 123

Met Gly Asn Gln Asp Glu Asn Gln Gly Leu Ser Val Ile Arg Leu Leu  
 1 5 10 15

Leu Ile Ile Thr Ile Arg Arg Val Gln Met Trp Asp Lys Ile Leu Thr  
 20 25 30

Pro Ala Phe Ser Gln Met Val Asn Leu Pro Val Ala Leu Glu Leu His  
 35 40 45

Ile Val Leu Phe Val Cys Phe Thr Glu Ser Val  
 50 55

&lt;210&gt; 124

&lt;211&gt; 114

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (7)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (22)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (24)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (111)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 124

Gln Arg Ala Met Ala Cys Xaa Phe Gly Ile Leu Leu Ile Val Ser Ala  
 1 5 10 15

Thr Leu Cys Phe Gly Xaa Leu Xaa Gly Phe Leu Met Thr Leu Pro Gln  
 20 25 30

Lys Arg Lys Ser Phe Gln Ser Lys Ser Phe Val Arg Leu Lys Asp Val  
 35 40 45

Thr Ala Tyr Met Trp Glu Lys Val Leu Thr Phe Leu Arg Leu Glu Thr  
 50 55 60

Pro Lys Leu Glu Glu Ala Glu Met Val Glu Asn His Asn Tyr Tyr Leu  
 65 70 75 80

Asp Glu Phe Ala Asn Leu Leu Asp Glu Leu Leu Met Lys Ile Asn Gly  
 85 90 95

Leu Ser Asp Ser Leu Gln Leu Pro Leu Leu Glu Lys Thr Ser Xaa Asn

100

105

110

Thr Gly

&lt;210&gt; 125

&lt;211&gt; 85

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (81)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (84)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 125

Met	Asp	Ile	Leu	Met	Leu	Leu	Leu	Leu	Leu	Cys	Val	Ile	Tyr	Gly	Arg
1				5					10					15	

Phe	Ser	Gln	Asp	Glu	Tyr	Ser	Leu	Asn	Gln	Ala	Ile	Arg	Lys	Glu	Phe
			20					25					30		

Thr	Arg	Asn	Ala	Arg	Asn	Cys	Leu	Gly	Gly	Leu	Arg	Asn	Ile	Ala	Asp
		35					40					45			

Trp	Trp	Asp	Trp	Ser	Leu	Thr	Thr	Leu	Leu	Asp	Gly	Leu	Tyr	Pro	Gly
	50					55					60				

Gly	Thr	Pro	Ser	Ala	Arg	Val	Pro	Gly	Ala	Ser	Ala	Trp	Ser	Ser	Trp
65					70					75					80

Xaa	Lys	Met	Xaa	Thr
				85

&lt;210&gt; 126

&lt;211&gt; 561

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 126

Met	Asp	Ile	Leu	Met	Leu	Leu	Leu	Leu	Leu	Cys	Val	Ile	Tyr	Gly	Arg
1				5					10					15	

Phe	Ser	Gln	Asp	Glu	Tyr	Ser	Leu	Asn	Gln	Ala	Ile	Arg	Lys	Glu	Phe
			20					25					30		

Thr	Arg	Asn	Ala	Arg	Asn	Cys	Leu	Gly	Gly	Leu	Arg	Asn	Ile	Ala	Asp
		35					40					45			

Trp	Trp	Asp	Trp	Ser	Leu	Thr	Thr	Leu	Leu	Asp	Gly	Leu	Tyr	Pro	Gly
	50					55					60				

Gly Thr Pro Ser Ala Arg Val Pro Gly Ala Gln Pro Gly Ala Leu Gly  
 65 70 75 80  
 Gly Lys Cys Tyr Leu Ile Gly Ser Ser Val Ile Arg Gln Leu Lys Val  
 85 90 95  
 Phe Pro Arg His Leu Cys Lys Pro Pro Arg Pro Phe Ser Ala Leu Ile  
 100 105 110  
 Glu Asp Ser Ile Pro Thr Cys Ser Pro Glu Val Gly Gly Pro Glu Asn  
 115 120 125  
 Pro Tyr Leu Ile Asp Pro Glu Asn Gln Asn Val Thr Leu Asn Gly Pro  
 130 135 140  
 Gly Gly Cys Gly Thr Arg Glu Asp Cys Val Leu Ser Leu Gly Arg Thr  
 145 150 155 160  
 Arg Thr Glu Ala His Thr Ala Leu Ser Arg Leu Arg Ala Ser Met Trp  
 165 170 175  
 Ile Asp Arg Ser Thr Arg Ala Val Ser Val His Phe Thr Leu Tyr Asn  
 180 185 190  
 Pro Pro Thr Gln Leu Phe Thr Ser Val Ser Leu Arg Val Glu Ile Leu  
 195 200 205  
 Pro Thr Gly Ser Leu Val Pro Ser Ser Leu Val Glu Ser Phe Ser Ile  
 210 215 220  
 Phe Arg Ser Asp Ser Ala Leu Gln Tyr His Leu Met Leu Pro Gln Leu  
 225 230 235 240  
 Val Phe Leu Ala Leu Ser Leu Ile His Leu Cys Val Gln Leu Tyr Arg  
 245 250 255  
 Met Met Asp Lys Gly Val Leu Ser Tyr Trp Arg Lys Pro Arg Asn Trp  
 260 265 270  
 Leu Glu Leu Ser Val Val Gly Val Ser Leu Thr Tyr Tyr Ala Val Ser  
 275 280 285  
 Gly His Leu Val Thr Leu Ala Gly Asp Val Thr Asn Gln Phe His Arg  
 290 295 300  
 Gly Leu Cys Arg Ala Phe Met Asp Leu Thr Leu Met Ala Ser Trp Asn  
 305 310 315 320  
 Gln Arg Ala Arg Trp Leu Arg Gly Ile Leu Leu Phe Leu Phe Thr Leu  
 325 330 335  
 Lys Cys Val Tyr Leu Pro Gly Ile Gln Asn Thr Met Ala Ser Cys Ser  
 340 345 350  
 Ser Met Met Arg His Ser Leu Pro Ser Ile Phe Val Ala Gly Leu Val  
 355 360 365  
 Gly Ala Leu Met Leu Ala Ala Leu Ser His Leu His Arg Phe Leu Leu  
 370 375 380

Ser Met Trp Val Leu Pro Pro Gly Thr Phe Thr Asp Ala Phe Pro Gly  
 385 390 395 400  
 Leu Leu Phe His Phe Pro Arg Arg Ser Gln Lys Asp Cys Leu Leu Gly  
 405 410 415  
 Leu Ser Lys Ser Asp Gln Arg Ala Met Ala Cys Tyr Phe Gly Ile Leu  
 420 425 430  
 Leu Ile Val Ser Ala Thr Leu Cys Phe Gly Met Leu Arg Gly Phe Leu  
 435 440 445  
 Met Thr Leu Pro Gln Lys Arg Lys Ser Phe Gln Ser Lys Ser Phe Val  
 450 455 460  
 Arg Leu Lys Asp Val Thr Ala Tyr Met Trp Glu Lys Val Leu Thr Phe  
 465 470 475 480  
 Leu Arg Leu Glu Thr Pro Lys Leu Glu Glu Ala Glu Met Val Glu Asn  
 485 490 495  
 His Asn Tyr Tyr Leu Asp Glu Phe Ala Asn Leu Leu Asp Glu Leu Leu  
 500 505 510  
 Met Lys Ile Asn Gly Leu Ser Asp Ser Leu Gln Leu Pro Leu Leu Glu  
 515 520 525  
 Lys Thr Ser Asn Asn Thr Gly Glu Ala Arg Thr Glu Glu Ser Pro Leu  
 530 535 540  
 Val Asp Ile Ser Ser Tyr Gln Ala Ala Glu Pro Ala Asp Ile Lys Asp  
 545 550 555 560  
 Phe

&lt;210&gt; 127

&lt;211&gt; 88

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (19)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (81)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 127

Xaa His Lys Thr Phe Pro Ser Glu Gly Ser Ser Cys Leu Ser Ser Val  
 1 5 10 15  
 Thr Leu Xaa Thr Thr Ala Gln Ala Tyr Phe Thr Leu Pro Pro Pro Thr  
 20 25 30  
 His His Cys Pro Leu Ser Ala Thr Lys Pro His Tyr Ser Ser Asn Asp  
 35 40 45  
 Ala Ser Leu Val Ser Gly Lys Pro Ile Trp Cys Thr Lys Met Leu Cys  
 50 55 60  
 Asn Thr Lys Trp Leu Leu Pro Leu Ile Leu Leu Asn Asn Val Asn Ser  
 65 70 75 80  
 Xaa Arg Ile Asn Phe Met Leu Cys  
 85

<210> 128  
 <211> 56  
 <212> PRT  
 <213> Homo sapiens

<400> 128  
 Met Trp Lys Val Leu Arg Pro Ser Leu Phe Thr Ala Gly Leu Phe Thr  
 1 5 10 15  
 Ala Ser Phe Phe Tyr Ser Asp Leu Lys Val Ser Thr Glu Leu Met Lys  
 20 25 30  
 Leu Gln His Met Val Phe Lys Ser Phe Pro Leu Lys Cys Thr Leu Glu  
 35 40 45  
 Asn Trp Val Pro Gln Pro His Tyr  
 50 55

<210> 129  
 <211> 58  
 <212> PRT  
 <213> Homo sapiens

<400> 129  
 Met Trp Lys Val Leu Arg Pro Ser Leu Phe Thr Ala Gly Leu Phe Thr  
 1 5 10 15  
 Ala Ser Phe Phe Tyr Ser Asp Leu Lys Val Ser Thr Glu Leu Met Lys  
 20 25 30  
 Leu Gln His Met Val Phe Lys Ser Phe Pro Leu Lys Cys Thr Leu Glu  
 35 40 45  
 Asn Trp Val Pro Gln Pro Gln Leu Leu Asn  
 50 55



<210> 130  
 <211> 32  
 <212> PRT  
 <213> Homo sapiens

<400> 130  
 Cys Leu Glu Thr Phe Trp Ser Leu Tyr Leu Gly Gly Trp Gly Met Val  
           1                  5                  10                  15  
 Gly Cys Val Cys Tyr Trp His Pro Val Asn Arg Ser Gln Gly Cys Arg  
                   20                  25                  30

<210> 131  
 <211> 199  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (142)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 131  
 Met Lys Leu Gly Cys Val Leu Met Ala Trp Ala Leu Tyr Leu Ser Leu  
           1                  5                  10                  15  
 Gly Val Leu Trp Val Ala Gln Met Leu Leu Ala Ala Ser Phe Glu Thr  
                   20                  25                  30  
 Leu Gln Cys Glu Gly Pro Val Cys Thr Glu Glu Ser Ser Cys His Thr  
           35                  40                  45  
 Glu Asp Asp Leu Thr Asp Ala Arg Glu Ala Gly Phe Gln Val Lys Ala  
           50                  55                  60  
 Tyr Thr Phe Ser Glu Pro Phe His Leu Ile Val Ser Tyr Asp Trp Leu  
           65                  70                  75                  80  
 Ile Leu Gln Gly Pro Ala Lys Pro Val Phe Glu Gly Asp Leu Leu Val  
                   85                  90                  95  
 Leu Arg Cys Gln Ala Trp Gln Asp Trp Pro Leu Thr Gln Val Thr Phe  
           100                  105                  110  
 Tyr Arg Asp Gly Ser Ala Leu Gly Pro Pro Gly Pro Asn Arg Glu Phe  
           115                  120                  125  
 Ser Ile Thr Val Val Gln Lys Ala Asp Ser Gly His Tyr Xaa Cys Ser  
           130                  135                  140  
 Gly Ile Phe Gln Ser Pro Gly Pro Gly Ile Pro Glu Thr Ala Ser Val  
           145                  150                  155                  160  
 Val Ala Ile Thr Val Gln Glu Leu Phe Pro Ala Pro Ile Leu Leu Leu  
                   165                  170                  175

Gln Gly Trp Lys Asp Ser Ala Lys Gln Gly Gly Ser Pro Gln Asn Ser  
 180 185 190

Arg Ser Pro Gln Leu Gln Lys  
 195

<210> 132

<211> 2

<212> PRT

<213> Homo sapiens

<400> 132

Ser Trp

1

<210> 133

<211> 359

<212> PRT

<213> Homo sapiens

<400> 133

Met Lys Leu Gly Cys Val Leu Met Ala Trp Ala Leu Tyr Leu Ser Leu  
 1 5 10 15

Gly Val Leu Trp Val Ala Gln Met Leu Leu Ala Ala Ser Phe Glu Thr  
 20 25 30

Leu Gln Cys Glu Gly Pro Val Cys Thr Glu Glu Ser Ser Cys His Thr  
 35 40 45

Glu Asp Asp Leu Thr Asp Ala Arg Glu Ala Gly Phe Gln Val Lys Ala  
 50 55 60

Tyr Thr Phe Ser Glu Pro Phe His Leu Ile Val Ser Tyr Asp Trp Leu  
 65 70 75 80

Ile Leu Gln Gly Pro Ala Lys Pro Val Phe Glu Gly Asp Leu Leu Val  
 85 90 95

Leu Arg Cys Gln Ala Trp Gln Asp Trp Pro Leu Thr Gln Val Thr Phe  
 100 105 110

Tyr Arg Asp Gly Ser Ala Leu Gly Pro Pro Gly Pro Asn Arg Glu Phe  
 115 120 125

Ser Ile Thr Val Val Gln Lys Ala Asp Ser Gly His Tyr His Cys Ser  
 130 135 140

Gly Ile Phe Gln Ser Pro Gly Pro Gly Ile Pro Glu Thr Ala Ser Val  
 145 150 155 160

Val Ala Ile Thr Val Gln Glu Leu Phe Pro Ala Pro Ile Leu Arg Ala  
 165 170 175

Val Pro Ser Ala Glu Pro Gln Ala Gly Gly Pro Met Thr Leu Ser Cys

180					185					190					
Gln	Thr	Lys	Leu	Pro	Leu	Gln	Arg	Ser	Ala	Ala	Arg	Leu	Leu	Phe	Ser
		195					200					205			
Phe	Tyr	Lys	Asp	Gly	Arg	Ile	Val	Gln	Ser	Arg	Gly	Leu	Ser	Ser	Glu
	210					215					220				
Phe	Gln	Ile	Pro	Thr	Ala	Ser	Glu	Asp	His	Ser	Gly	Ser	Tyr	Trp	Cys
225					230					235					240
Glu	Ala	Ala	Thr	Glu	Asp	Asn	Gln	Val	Trp	Lys	Gln	Ser	Pro	Gln	Leu
				245					250					255	
Glu	Ile	Arg	Val	Gln	Gly	Ala	Ser	Ser	Ser	Ala	Ala	Pro	Pro	Thr	Leu
			260					265					270		
Asn	Pro	Ala	Pro	Gln	Lys	Ser	Ala	Ala	Pro	Gly	Thr	Ala	Pro	Glu	Glu
		275					280					285			
Ala	Pro	Gly	Pro	Leu	Pro	Pro	Pro	Pro	Thr	Pro	Ser	Ser	Glu	Asp	Pro
	290					295					300				
Gly	Phe	Ser	Ser	Pro	Leu	Gly	Met	Pro	Asp	Pro	His	Leu	Tyr	His	Gln
305					310					315					320
Met	Gly	Leu	Leu	Leu	Lys	His	Met	Gln	Asp	Val	Arg	Val	Leu	Leu	Gly
				325					330					335	
His	Leu	Leu	Met	Glu	Leu	Arg	Glu	Leu	Ser	Gly	His	Arg	Lys	Pro	Gly
			340					345					350		
Thr	Thr	Lys	Ala	Thr	Ala	Glu									
		355													

&lt;210&gt; 134

&lt;211&gt; 5

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 134

Met Ser Arg Leu Leu

1

5

&lt;210&gt; 135

&lt;211&gt; 5

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 135

Met Ser Arg Leu Leu

1

5

&lt;210&gt; 136

<211> 63  
 <212> PRT  
 <213> Homo sapiens

<400> 136  
 Phe Leu His Val Phe Thr Ser Val Glu Leu Leu Arg Leu Ser Ser Pro  
 1 5 10 15  
 Pro Leu Pro Lys Pro Lys Tyr Lys Arg Lys Ser Ser Pro Leu Leu Met  
 20 25 30  
 Ala Glu Arg Ile Leu Ser Val Ser Gly Leu Phe Gly His Arg Leu Asn  
 35 40 45  
 Lys Gly Leu Leu Ile His Pro Lys Lys Lys Lys Lys Lys Leu Glu  
 50 55 60

<210> 137  
 <211> 438  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (42)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 137  
 Leu Thr Ile Thr Val His Asp Pro Asn Ala Ala Gln Trp Tyr Tyr Gly  
 1 5 10 15  
 Met Ser Trp Gly Leu Arg Leu Tyr Ile Pro Gly Phe Asp Val Gly Thr  
 20 25 30  
 Met Phe Thr Ile Gln Lys Lys Ile Leu Xaa Ser Trp Ser Pro Pro Lys  
 35 40 45  
 Pro Ile Arg Pro Leu Thr Asp Leu Gly Asp Pro Ile Phe Gln Lys His  
 50 55 60  
 Pro Asp Lys Val Asp Leu Thr Val Pro Gln Pro Phe Leu Val Pro Arg  
 65 70 75 80  
 Pro Gln Leu Gln Gln Gln His Leu Gln Pro Ser Leu Met Ser Ile Leu  
 85 90 95  
 Gly Gly Val His His Leu Leu Asn Leu Thr Gln Pro Lys Leu Ala Gln  
 100 105 110  
 Asp Cys Trp Leu Cys Leu Lys Ala Lys Pro Pro Tyr Tyr Val Gly Leu  
 115 120 125  
 Gly Val Glu Ala Thr Leu Lys Arg Gly Pro Leu Ser Cys His Thr Arg  
 130 135 140  
 Pro Arg Ala Leu Thr Ile Gly Asp Val Ser Gly Asn Ala Ser Cys Leu  
 145 150 155 160

Ile Ser Thr Gly Tyr Asn Leu Ser Ala Ser Pro Phe Gln Ala Thr Cys  
 165 170 175  
 Asn Gln Ser Leu Leu Thr Tyr Ile Ser Thr Ser Val Ser Tyr Gln Ala  
 180 185 190  
 Pro Asn Asn Thr Trp Leu Ala Cys Thr Ser Gly Leu Thr Arg Cys Ile  
 195 200 205  
 Asn Gly Thr Glu Pro Gly Pro Leu Leu Cys Val Leu Val His Val Leu  
 210 215 220  
 Pro Gln Val Tyr Val Tyr Ser Gly Pro Glu Gly Arg Gln Leu Ile Ala  
 225 230 235 240  
 Pro Pro Glu Leu His Pro Arg Leu His Gln Ala Val Pro Leu Leu Val  
 245 250 255  
 Pro Leu Leu Ala Gly Leu Ser Ile Ala Gly Ser Ala Ala Ile Gly Thr  
 260 265 270  
 Ala Ala Leu Val Gln Gly Glu Thr Gly Leu Ile Ser Leu Ser Gln Gln  
 275 280 285  
 Val Asp Ala Asp Phe Ser Asn Leu Gln Ser Ala Ile Asp Ile Leu His  
 290 295 300  
 Ser Gln Val Glu Ser Leu Ala Glu Val Val Leu Gln Asn Cys Arg Cys  
 305 310 315 320  
 Leu Asp Leu Leu Phe Leu Ser Gln Gly Gly Leu Cys Ala Ala Leu Gly  
 325 330 335  
 Glu Ser Cys Cys Phe Tyr Ala Asn Gln Ser Gly Val Ile Lys Gly Thr  
 340 345 350  
 Val Lys Lys Val Arg Glu Asn Leu Asp Arg His Gln Gln Glu Arg Glu  
 355 360 365  
 Asn Asn Ile Pro Trp Tyr Gln Ser Met Phe Asn Trp Asn Pro Trp Leu  
 370 375 380  
 Thr Thr Leu Ile Thr Gly Leu Ala Gly Pro Leu Leu Ile Leu Leu Leu  
 385 390 395 400  
 Ser Leu Ile Phe Gly Pro Cys Ile Leu Asn Ser Phe Leu Asn Phe Ile  
 405 410 415  
 Lys Gln Arg Ile Ala Ser Val Lys Leu Thr Tyr Leu Lys Thr Gln Tyr  
 420 425 430  
 Asp Thr Leu Val Asn Asn  
 435

&lt;210&gt; 138

&lt;211&gt; 438

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 138

Leu Thr Ile Thr Val His Asp Pro Asn Ala Ala Gln Trp Tyr Tyr Gly  
 1 5 10 15  
 Met Ser Trp Gly Leu Arg Leu Tyr Ile Pro Gly Phe Asp Val Gly Thr  
 20 25 30  
 Met Phe Thr Ile Gln Lys Lys Ile Leu Val Ser Trp Ser Pro Pro Lys  
 35 40 45  
 Pro Ile Arg Pro Leu Thr Asp Leu Gly Asp Pro Ile Phe Gln Lys His  
 50 55 60  
 Pro Asp Lys Val Asp Leu Thr Val Pro Gln Pro Phe Leu Val Pro Arg  
 65 70 75 80  
 Pro Gln Leu Gln Gln Gln His Leu Gln Pro Ser Leu Met Ser Ile Leu  
 85 90 95  
 Gly Gly Val His His Leu Leu Asn Leu Thr Gln Pro Lys Leu Ala Gln  
 100 105 110  
 Asp Cys Trp Leu Cys Leu Lys Ala Lys Pro Pro Tyr Tyr Val Gly Leu  
 115 120 125  
 Gly Val Glu Ala Thr Leu Lys Arg Gly Pro Leu Ser Cys His Thr Arg  
 130 135 140  
 Pro Arg Ala Leu Thr Ile Gly Asp Val Ser Gly Asn Ala Ser Cys Leu  
 145 150 155 160  
 Ile Ser Thr Gly Tyr Asn Leu Ser Ala Ser Pro Phe Gln Ala Thr Cys  
 165 170 175  
 Asn Gln Ser Leu Leu Thr Tyr Ile Ser Thr Ser Val Ser Tyr Gln Ala  
 180 185 190  
 Pro Asn Asn Thr Trp Leu Ala Cys Thr Ser Gly Leu Thr Arg Cys Ile  
 195 200 205  
 Asn Gly Thr Glu Pro Gly Pro Leu Leu Cys Val Leu Val His Val Leu  
 210 215 220  
 Pro Gln Val Tyr Val Tyr Ser Gly Pro Glu Gly Arg Gln Leu Ile Ala  
 225 230 235 240  
 Pro Pro Glu Leu His Pro Arg Leu His Gln Ala Val Pro Leu Leu Val  
 245 250 255  
 Pro Leu Leu Ala Gly Leu Ser Ile Ala Gly Ser Ala Ala Ile Gly Thr  
 260 265 270  
 Ala Ala Leu Val Gln Gly Glu Thr Gly Leu Ile Ser Leu Ser Gln Gln  
 275 280 285  
 Val Asp Ala Asp Phe Ser Asn Leu Gln Ser Ala Ile Asp Ile Leu His  
 290 295 300  
 Ser Gln Val Glu Ser Leu Ala Glu Val Val Leu Gln Asn Cys Arg Cys

305                      310                      315                      320  
 Leu Asp Leu Leu Phe Leu Ser Gln Gly Gly Leu Cys Ala Ala Leu Gly  
                                  325                      330                      335  
 Glu Ser Cys Cys Phe Tyr Ala Asn Gln Ser Gly Val Ile Lys Gly Thr  
                                  340                      345                      350  
 Val Lys Lys Val Arg Glu Asn Leu Asp Arg His Gln Gln Glu Arg Glu  
                                  355                      360                      365  
 Asn Asn Ile Pro Trp Tyr Gln Ser Met Phe Asn Trp Asn Pro Trp Leu  
                                  370                      375                      380  
 Thr Thr Leu Ile Thr Gly Leu Ala Gly Pro Leu Leu Ile Leu Leu Leu  
                                  385                      390                      395                      400  
 Ser Leu Ile Phe Gly Pro Cys Ile Leu Asn Ser Phe Leu Asn Phe Ile  
                                  405                      410                      415  
 Lys Gln Arg Ile Ala Ser Val Lys Leu Thr Tyr Leu Lys Thr Gln Tyr  
                                  420                      425                      430  
 Asp Thr Leu Val Asn Asn  
                                  435

<210> 139  
 <211> 62  
 <212> PRT  
 <213> Homo sapiens

<400> 139  
 Met Phe Cys Arg Asn Trp Arg Cys Glu Phe Met Met Leu Ser His Asn  
   1                                  5                                  10                                  15  
 Thr Ala Val Met Ile Cys Ser Phe Ser Gln Asn Asp Phe His Ala Ala  
                                   20                                  25                                  30  
 Leu Cys Cys Ser Ser Val Ser Glu Leu Pro Tyr Leu Phe Leu Val Cys  
                                   35                                  40                                  45  
 Ser Thr Tyr Lys Cys Ser Cys His Ala Val Leu Phe Phe Cys  
                                   50                                  55                                  60

<210> 140  
 <211> 62  
 <212> PRT  
 <213> Homo sapiens

<400> 140  
 Met Phe Cys Arg Asn Trp Arg Cys Glu Phe Met Met Leu Ser His Asn  
   1                                  5                                  10                                  15  
 Thr Ala Val Met Ile Cys Ser Phe Ser Gln Asn Asp Phe His Ala Ala  
                                   20                                  25                                  30

Leu Cys Cys Ser Ser Val Ser Glu Leu Pro Tyr Leu Phe Leu Val Cys  
                   35                                  40                                  45

Ser Thr Tyr Lys Cys Ser Cys His Ala Val Leu Phe Phe Cys  
           50                                  55                                  60

<210> 141

<211> 76

<212> PRT

<213> Homo sapiens

<400> 141

Ile Asn Phe Thr Tyr Lys Arg Leu Ser Leu Asp Phe Ile Tyr Ile Tyr  
   1                                  5                                  10                                  15

Met Cys Val Cys Val Cys Val Cys Val Cys Val Cys Val Cys Val Tyr  
                   20                                  25                                  30

Leu Lys Arg Thr Cys Ala Ser Ile Lys Gly Asn Lys Met Arg Glu Tyr  
                   35                                  40                                  45

Ile Ile Asp Phe Val Lys Ser Lys Tyr Leu Asn Tyr Gly Phe Ser Ile  
           50                                  55                                  60

Phe Lys Asn Ser Cys Ser Phe Cys Thr Tyr Phe Phe  
   65                                  70                                  75

<210> 142

<211> 42

<212> PRT

<213> Homo sapiens

<400> 142

Met Phe Leu Phe Ile Thr Phe Thr Ile Leu Ala Ile Phe Ile Ile Glu  
   1                                  5                                  10                                  15

Pro Arg Asn Leu Arg Val Asp Leu Asn Leu Ile Lys Phe Gln Thr Ser  
                   20                                  25                                  30

Trp Pro Lys Thr Leu Val Glu Glu Gln Asn  
           35                                  40

<210> 143

<211> 42

<212> PRT

<213> Homo sapiens

<400> 143

Met Phe Leu Phe Ile Thr Phe Thr Ile Leu Ala Ile Phe Ile Ile Glu  
   1                                  5                                  10                                  15

Pro Arg Asn Leu Arg Val Asp Leu Asn Leu Ile Lys Phe Gln Thr Ser  
                   20                                  25                                  30



Trp Pro Lys Thr Leu Val Glu Glu Gln Asn  
35 40

<210> 144  
<211> 23  
<212> PRT  
<213> Homo sapiens

<400> 144  
Ala Trp Ile Gln Cys Thr Leu Leu Leu Tyr Pro Arg Arg Thr Ser Gln  
1 5 10 15

Gly Ile His Gln Val Pro Gly  
20

<210> 145  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 145  
Leu Leu Met Arg Gln Pro Trp Val Gly Gln Gly Trp Gly Pro Val Val  
1 5 10 15

Glu Glu Thr Cys  
20

<210> 146  
<211> 322  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (131)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (185)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (218)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (220)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE

&lt;222&gt; (250)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (312)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 146

Met Ala Leu Pro Pro Gly Pro Ala Ala Leu Arg His Thr Leu Leu Leu  
 1 5 10 15

Leu Pro Ala Leu Leu Ser Ser Gly Trp Gly Glu Leu Glu Pro Gln Ile  
 20 25 30

Asp Gly Gln Thr Trp Ala Glu Arg Ala Leu Arg Glu Asn Glu Arg His  
 35 40 45

Ala Phe Thr Cys Arg Val Ala Gly Gly Pro Gly Thr Pro Arg Leu Ala  
 50 55 60

Trp Tyr Leu Asp Gly Gln Leu Gln Glu Ala Ser Thr Ser Arg Leu Leu  
 65 70 75 80

Ser Val Gly Gly Glu Ala Phe Ser Gly Gly Thr Ser Thr Phe Thr Val  
 85 90 95

Thr Ala His Arg Ala Gln His Glu Leu Asn Cys Ser Leu Gln Asp Pro  
 100 105 110

Arg Ser Gly Arg Ser Ala Asn Ala Ser Val Ile Leu Asn Val Gln Phe  
 115 120 125

Lys Pro Xaa Ile Ala Gln Val Gly Ala Lys Tyr Gln Glu Ala Gln Gly  
 130 135 140

Pro Gly Leu Leu Val Val Leu Phe Ala Leu Val Arg Ala Asn Pro Pro  
 145 150 155 160

Ala Asn Val Thr Trp Ile Asp Gln Asp Gly Pro Val Thr Val Asn Thr  
 165 170 175

Ser Asp Phe Leu Val Leu Asp Ala Xaa Asn Tyr Pro Trp Leu Thr Asn  
 180 185 190

His Thr Val Gln Leu Gln Leu Arg Ser Leu Ala His Asn Leu Ser Val  
 195 200 205

Val Ala Thr Asn Asp Val Gly Val Thr Xaa Ala Xaa Leu Pro Ala Pro  
 210 215 220

Gly Pro Ser Arg His Pro Ser Leu Ile Ser Ser Asp Ser Asn Asn Leu  
 225 230 235 240

Lys Leu Asn Asn Val Arg Leu Pro Arg Xaa Asn Met Ser Leu Pro Ser  
 245 250 255

Asn Leu Gln Leu Asn Asp Leu Thr Pro Asp Ser Arg Ala Val Lys Pro  
 260 265 270

Ala Asp Arg Gln Met Ala Gln Asn Asn Ser Arg Pro Glu Leu Leu Asp  
 275 280 285

Pro Glu Pro Gly Gly Leu Leu Thr Ser Gln Gly Phe Ile Arg Leu Pro  
 290 295 300

Val Leu Gly Tyr Ile Tyr Arg Xaa Ser Ser Val Ser Ser Asp Glu Ile  
 305 310 315 320

Trp Leu

&lt;210&gt; 147

&lt;211&gt; 322

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 147

Met Ala Leu Pro Pro Gly Pro Ala Ala Leu Arg His Thr Leu Leu Leu  
 1 5 10 15

Leu Pro Ala Leu Leu Ser Ser Gly Trp Gly Glu Leu Glu Pro Gln Ile  
 20 25 30

Asp Gly Gln Thr Trp Ala Glu Arg Ala Leu Arg Glu Asn Glu Arg His  
 35 40 45

Ala Phe Thr Cys Arg Val Ala Gly Gly Pro Gly Thr Pro Arg Leu Ala  
 50 55 60

Trp Tyr Leu Asp Gly Gln Leu Gln Glu Ala Ser Thr Ser Arg Leu Leu  
 65 70 75 80

Ser Val Gly Gly Glu Ala Phe Ser Gly Gly Thr Ser Thr Phe Thr Val  
 85 90 95

Thr Ala His Arg Ala Gln His Glu Leu Asn Cys Ser Leu Gln Asp Pro  
 100 105 110

Arg Ser Gly Arg Ser Ala Asn Ala Ser Val Ile Leu Asn Val Gln Phe  
 115 120 125

Lys Pro Glu Ile Ala Gln Val Gly Ala Lys Tyr Gln Glu Ala Gln Gly  
 130 135 140

Pro Gly Leu Leu Val Val Leu Phe Ala Leu Val Arg Ala Asn Pro Pro  
 145 150 155 160

Ala Asn Val Thr Trp Ile Asp Gln Asp Gly Pro Val Thr Val Asn Thr  
 165 170 175

Ser Asp Phe Leu Val Leu Asp Ala Gln Asn Tyr Pro Trp Leu Thr Asn  
 180 185 190

His Thr Val Gln Leu Gln Leu Arg Ser Leu Ala His Asn Leu Ser Val  
 195 200 205

Val Ala Thr Asn Asp Val Gly Val Thr Ser Ala Ser Leu Pro Ala Pro

210                      215                      220  
 Gly Pro Ser Arg His Pro Ser Leu Ile Ser Ser Asp Ser Asn Asn Leu  
 225                      230                      235                      240  
 Lys Leu Asn Asn Val Arg Leu Pro Arg Glu Asn Met Ser Leu Pro Ser  
                     245                      250                      255  
 Asn Leu Gln Leu Asn Asp Leu Thr Pro Asp Ser Arg Ala Val Lys Pro  
                     260                      265                      270  
 Ala Asp Arg Gln Met Ala Gln Asn Asn Ser Arg Pro Glu Leu Leu Asp  
                     275                      280                      285  
 Pro Glu Pro Gly Gly Leu Leu Thr Ser Gln Gly Phe Ile Arg Leu Pro  
                     290                      295                      300  
 Val Leu Gly Tyr Ile Tyr Arg Val Ser Ser Val Ser Ser Asp Glu Ile  
 305                      310                      315                      320  
 Trp Leu

<210> 148  
 <211> 25  
 <212> PRT  
 <213> Homo sapiens

<400> 148  
 Met Ile Ser Leu Leu Trp Thr Leu Lys Leu Phe Ser Arg Asn Leu Asp  
   1                    5                    10                    15  
 Tyr Ser Gln Lys Arg Lys Ser Trp Cys  
                     20                    25

<210> 149  
 <211> 25  
 <212> PRT  
 <213> Homo sapiens

<400> 149  
 Met Ile Ser Leu Leu Trp Thr Leu Lys Leu Phe Ser Arg Asn Leu Asp  
   1                    5                    10                    15  
 Tyr Ser Gln Lys Arg Lys Ser Trp Cys  
                     20                    25

<210> 150  
 <211> 18  
 <212> PRT  
 <213> Homo sapiens

<400> 150  
 Thr Lys Ser Ser Asp Phe Gly Gly Gly Cys Arg Asn Ala Ser Ser Ser

1 5 10 15

Cys Cys

<210> 151  
 <211> 26  
 <212> PRT  
 <213> Homo sapiens

<400> 151  
 Gly Cys Phe Lys Ile Val Leu Phe Phe Lys Leu Val Ile Phe Ala Lys  
 1 5 10 15

Leu Phe Val Phe Val Val Ser Ile Asn Met  
 20 25

<210> 152  
 <211> 18  
 <212> PRT  
 <213> Homo sapiens

<400> 152  
 Thr Lys Ser Ser Asp Phe Gly Gly Gly Cys Arg Asn Ala Ser Ser Ser  
 1 5 10 15

Cys Cys

<210> 153  
 <211> 143  
 <212> PRT  
 <213> Homo sapiens

<400> 153  
 Met Val Cys Gly Trp Ile Ile Tyr Gly Ser Phe Ile Tyr Leu Ser Ser  
 1 5 10 15

His Cys Ala Thr Thr Phe Lys Glu Asp Gly Leu Trp Thr Tyr Leu Asn  
 20 25 30

Gln Ile Val Ala Cys Ser Pro Trp Val Leu Tyr Ile Leu Met Leu Ala  
 35 40 45

Thr Phe His Phe Ser Trp Ser Thr Phe Leu Leu Leu Asn Gln Leu Phe  
 50 55 60

Gln Ile Ala Phe Leu Gly Leu Thr Ser His Glu Arg Ile Ser Leu Gln  
 65 70 75 80

Lys Gln Ser Lys His Met Lys Gln Thr Leu Ser Leu Arg Lys Thr Pro  
 85 90 95

Tyr Asn Leu Gly Phe Met Gln Asn Leu Ala Asp Phe Phe Gln Cys Gly

	100		105		110
Cys	Phe	Gly	Leu	Val	Lys
	115				120
Pro	Cys	Val	Val	Asp	Trp
					125
Thr	Ser	Gln	Tyr		
Thr	Met	Val	Phe	His	Pro
	130				135
Ala	Arg	Glu	Lys	Val	Leu
					140
Arg	Ser	Val			

<210> 154  
 <211> 101  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (91)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (93)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (99)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 154
Trp
1
Glu
5
Ser
10
Leu
15
Met
20
Phe
25
Leu
30
Cys
35
Gly
40
Pro
45
His
50
Leu
55
Thr
60
Leu
65
Leu
70
Gly
75
Thr
80
Gly
85
His
90
Leu
95
His
100
Ile
105
Val
110
Val
115
Arg
120
Val
125
Ala
130
Cys
135
Val
140
Leu
145
Val
150
Leu
155

<210> 155  
 <211> 35  
 <212> PRT  
 <213> Homo sapiens

<400> 155

Met Leu Asn Asp Gly Lys Val Trp Val Ser Cys Phe Cys Val Val Leu  
 1 5 10 15

Thr Ser Leu Asp Phe Cys Ser Phe Cys Ser Leu Trp Ala Ser Val Leu  
 20 25 30

Ser Leu Ile  
 35

<210> 156

<211> 114

<212> PRT

<213> Homo sapiens

<400> 156

Gly Pro Arg Arg Leu Ser Gly Thr His Ser Arg Gly Ser Ser Pro Asp  
 1 5 10 15

Pro Cys Ser Cys Val Val Trp Ala Ser Ala Asn Ser Trp Ala Thr Cys  
 20 25 30

Val Tyr Leu Glu Pro Gly Ser Pro Leu Ser Ser Phe Pro Cys Ala Tyr  
 35 40 45

Ser Gly Thr Cys Leu Val Arg Val Trp Gln Glu Asn Gly Ala Phe Asn  
 50 55 60

Asn Leu Pro Ser Phe Ile Pro Trp Ser Leu Leu His Ala Arg Thr Cys  
 65 70 75 80

Ala His Leu Phe Gly Ala Leu Ser His Leu Ile Asp Ser Arg Pro Gly  
 85 90 95

Ala Val Leu Thr Pro Val Ile Pro Ala Leu Trp Glu Asp Glu Ala Gly  
 100 105 110

Gly Ser

<210> 157

<211> 26

<212> PRT

<213> Homo sapiens

<400> 157

Met Cys Val Ser Pro Val Ser Val Cys Pro Phe Leu Pro Ser Leu His  
 1 5 10 15

Phe Ile Asn Asn Trp Cys Asn Val Ser Ser  
 20 25

<210> 158

<211> 106

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 158

Gly Ser Asp Gly Pro Arg Glu Arg Ala Pro Val Ala Trp Leu Ser His  
1 5 10 15

Ser Ile Leu Ser Leu Ile Leu Asn Lys Tyr Phe Leu Trp Gly Phe Phe  
20 25 30

Phe Phe Leu Xaa Ala Val Val Cys Phe Lys Leu Thr Thr Trp Lys Lys  
35 40 45

His Leu Gly Tyr Leu Trp Phe Ser Cys Leu Val Pro Ala Ser Thr Pro  
50 55 60

Thr Pro Phe Glu Ser Gly Asp Ser Phe Phe Cys Val Glu Thr Arg Trp  
65 70 75 80

Pro Arg Gln Glu Val Lys Ala Ala Ile Arg Lys Ala Leu Gly Thr Leu  
85 90 95

Val Pro Val Ala Arg Leu Gln Val Thr Ser  
100 105

<210> 159

<211> 201

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 159

Leu Ser Ser Leu Leu Pro Gln Arg Leu Xaa Glu Pro Ser Ser Ser Ser  
1 5 10 15

Pro Gly Xaa Arg Thr Trp Gln Leu Ser Gln Lys Ser Arg Gly Pro Ser  
20 25 30

Arg Ala Ser Ser Met Ser Val Leu Asn Ser Leu Arg Ser Ser Ser Trp  
35 40 45

Trp Pro Arg Leu His Thr His Thr Ser Met Pro Glu Ser Pro Val Lys  
50 55 60

Arg Arg Cys Leu Pro Gly Val Phe Ser Leu Leu Ser Gly Ala Pro Cys



65	70	75	80
Ser Glu Leu Ser Ser Phe Ser Ser Ser Ser Leu His Ser Ala Ser Leu	85	90	95
Ser Arg Lys Ala Pro Gly Ser Ser Ser Pro Arg Pro Ala Thr Glu Pro	100	105	110
Leu Gly Ser Ile Pro Gly Ala Leu Val Ala Ala Arg Ser Thr Gly Arg	115	120	125
Ser Glu Gly Ser Gly Ser Ala Met Leu Gly Gly Leu Val Leu Leu Leu	130	135	140
Leu Gly Ser Asp Lys Gly Leu Leu Cys Ala Pro Trp Asp Pro Leu Val	145	150	155
Gly Ser Met Pro Gly Gly Leu Pro Pro Ala Gly Pro His Cys Gly Gly	165	170	175
Ser Ser Cys Cys Cys Cys Ser Trp Lys Ala Leu Tyr Gly Gly Gly Gly	180	185	190
Val Gly Gly Arg Phe Thr Thr Ser Ser	195	200	

&lt;210&gt; 160

&lt;211&gt; 52

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 160

Met Ala Leu Leu Leu Leu Gln Ala Leu Pro Ser Pro Leu Ser Ala Arg	1	5	10	15
Ala Glu Pro Pro Gln Asp Lys Glu Ala Cys Val Gly Thr Asn Asn Gln	20	25	30	
Ser Tyr Ile Cys Asp Thr Gly His Cys Cys Gly Gln Ser Gln Cys Cys	35	40	45	
Lys Leu Leu Leu	50			

&lt;210&gt; 161

&lt;211&gt; 118

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 161

Leu Leu Leu Leu Gln Ala Leu Pro Ser Pro Leu Ser Ala Arg Ala Glu	1	5	10	15
Pro Pro Gln Asp Lys Glu Ala Cys Val Gly Thr Asn Asn Gln Ser Tyr	20	25	30	

Ile Cys Asp Thr Gly His Cys Cys Gly Gln Ser Gln Cys Cys Asn Tyr  
                   35                  40                  45

Tyr Tyr Glu Leu Trp Trp Phe Trp Leu Val Trp Thr Ile Ile Ile Ile  
           50                  55                  60

Leu Ser Cys Cys Cys Val Cys His His Arg Arg Ala Lys His Arg Leu  
       65                  70                  75                  80

Gln Ala Gln Gln Arg Gln His Glu Ile Asn Leu Ile Ala Tyr Arg Glu  
                   85                  90                  95

Ala His Asn Tyr Ser Ala Leu Pro Phe Tyr Phe Arg Phe Leu Pro Asn  
                   100                  105                  110

Tyr Leu Leu Pro Pro Leu  
           115

&lt;210&gt; 162

&lt;211&gt; 363

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 162

Met Glu Arg Arg Arg Leu Leu Gly Gly Met Ala Leu Leu Leu Leu Gln  
       1                  5                  10                  15

Ala Leu Pro Ser Pro Leu Ser Ala Arg Ala Glu Pro Pro Gln Asp Lys  
                   20                  25                  30

Glu Ala Cys Val Gly Thr Asn Asn Gln Ser Tyr Ile Cys Asp Thr Gly  
           35                  40                  45

His Cys Cys Gly Gln Ser Gln Cys Cys Asn Tyr Tyr Tyr Glu Leu Trp  
       50                  55                  60

Trp Phe Trp Leu Val Trp Thr Ile Ile Ile Ile Leu Ser Cys Cys Cys  
       65                  70                  75                  80

Val Cys His His Arg Arg Ala Lys His Arg Leu Gln Ala Gln Gln Arg  
                   85                  90                  95

Gln His Glu Ile Asn Leu Ile Ala Tyr Arg Glu Ala His Asn Tyr Ser  
                   100                  105                  110

Ala Leu Pro Phe Tyr Phe Arg Phe Leu Pro Asn Tyr Leu Leu Pro Pro  
           115                  120                  125

Tyr Glu Glu Val Val Asn Arg Pro Pro Thr Pro Pro Pro Tyr Ser  
       130                  135                  140

Ala Phe Gln Leu Gln Gln Gln Gln Leu Leu Pro Pro Gln Cys Gly Pro  
       145                  150                  155                  160

Ala Gly Gly Ser Pro Pro Gly Ile Asp Pro Thr Arg Gly Ser Gln Gly  
                   165                  170                  175

Ala Gln Ser Ser Pro Leu Ser Glu Pro Ser Arg Ser Ser Thr Arg Pro

180	185	190
Pro Ser Ile Ala Asp 195	Pro Asp 200	Pro Ser Asp Leu Pro Val Asp Arg Ala 205
Ala Thr Lys Ala Pro Gly 210	Met Glu Pro Ser Gly 215	Ser Val Ala Gly Leu 220
Gly Glu Leu Asp Pro Gly 225	Ala Phe Leu Asp 230	Lys Asp Ala Glu Cys Arg 235 240
Glu Glu Leu Leu Lys Asp 245	Asp Ser Ser Glu His Gly 250	Ala Pro Asp Ser 255
Lys Glu Lys Thr Pro Gly 260	Arg His Arg Arg Phe Thr 265	Gly Asp Ser Gly 270
Ile Glu Val Cys Val Cys 275	Asn Arg Gly His His 280	Asp Asp Asp Leu Lys 285
Glu Val Asn Thr Leu Ile 290	Asp Asp Ala Leu Asp 295	Gly Pro Leu Asp Phe 300
Cys Asp Ser Cys His Val 305	Arg Pro Pro Gly Asp 310 315	Glu Glu Glu Gly Leu 320
Cys Gln Pro Ser Glu Glu 325	Gln Ala Arg Glu Pro Gly 330	His Pro His Leu 335
Pro Arg Pro Pro Ala Cys 340	Leu Leu Leu Asn Thr 345	Ile Asn Glu Gln Asp 350
Ser Pro Asn Ser Gln Ser 355	Asn Ser Ser Pro Ser 360	

<210> 163  
 <211> 199  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (2)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (6)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (14)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (51)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 163

Gln Xaa Lys Pro Pro Xaa Pro Ala Ala Pro Ala Ala Pro Xaa Ala Pro  
1 5 10 15

Ala Pro Leu Glu Lys Pro Ile Arg Ser His Glu Ala Thr Gly Gly Gly  
20 25 30

Glu Xaa Ala Cys Gly Val Thr Gly Ala Ser Thr Pro Glu Gly Thr Ala  
35 40 45

Pro Pro Xaa Pro Ala Ala Pro Ala Pro Pro Lys Gly Glu Lys Glu Gly  
50 55 60

Gln Arg Pro Thr Gln Pro Val Tyr Gln Ile Gln Asn Arg Gly Met Gly  
65 70 75 80

Thr Ala Ala Pro Ala Ala Met Asp Arg Glu Leu Gly Leu Gly Ser Thr  
85 90 95

Arg Leu Gly Thr Gly Val Ser Ser Gln Ile Leu Thr Ala Ser Ser Val  
100 105 110

Ser Cys Phe Leu Gln Ser Pro Ala Val Val Gly Gln Ala Lys Leu Leu  
115 120 125

Pro Pro Glu Arg Met Lys His Ser Ile Lys Leu Val Asp Asp Gln Met  
130 135 140

Asn Trp Cys Asp Ser Ala Ile Glu Val Pro Arg Gly Pro Ala Leu Pro  
145 150 155 160

Glu Leu Pro His Ile Leu His Pro Leu Ile Phe His Leu Ser Val Gly  
165 170 175

Asn Thr Arg Leu Glu Gly Phe Glu Ala Thr Tyr Ser Ser Glu Arg Gly  
180 185 190

Trp Tyr Gln Asn Ile Leu Thr  
195

<210> 164

<211> 21

<212> PRT

<213> Homo sapiens

<400> 164

Met Lys Asn Ser Phe Phe Thr Val Ser Trp Ala Leu Thr Cys Ser Phe  
1 5 10 15

Ser Trp Ala Thr Val  
20

<210> 165  
 <211> 21  
 <212> PRT  
 <213> Homo sapiens

<400> 165  
 Met Lys Asn Ser Phe Phe Thr Val Ser Trp Ala Leu Thr Cys Ser Phe  
           1                  5                  10                  15  
 Ser Trp Ala Thr Val  
                   20

<210> 166  
 <211> 39  
 <212> PRT  
 <213> Homo sapiens

<400> 166  
 Met Pro Leu Phe Arg Thr Phe Lys Gln Leu Gly Leu Phe Leu Phe Leu  
           1                  5                  10                  15  
 Ile Ile Pro Ile Ile Cys Ser Ser Leu Pro Pro Leu Gly Pro Val Gln  
                   20                  25                  30  
 Ser Phe Leu Gly Cys Leu Tyr  
                   35

<210> 167  
 <211> 50  
 <212> PRT  
 <213> Homo sapiens

<400> 167  
 Met Leu Leu Leu Val Val Thr Leu Val Asn Leu Ser Ile Tyr Lys Leu  
           1                  5                  10                  15  
 Ile Lys Leu Val Thr Ala Leu Ser Lys Lys Leu Gly Ala Lys Gly Val  
                   20                  25                  30  
 Leu Lys Asn Ala His Phe Met Arg Cys Asn Cys Gly Glu Met Arg Thr  
           35                  40                  45  
 Arg Ser  
           50

<210> 168  
 <211> 2  
 <212> PRT  
 <213> Homo sapiens

<400> 168

Leu Leu

1

&lt;210&gt; 169

&lt;211&gt; 69

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (6)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (13)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (51)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 169

Trp	Tyr	Gln	Gly	Lys	Xaa	Asp	Leu	Lys	Gly	Leu	Gly	Xaa	Val	Leu	Asp
1				5					10					15	

Gly	Ser	Asp	Gly	Met	Ala	Gly	Gly	Ile	Pro	Glu	Gly	Met	Ala	Phe	Thr
			20					25					30		

Leu	Tyr	Leu	Gly	Ile	Trp	Leu	Ser	Ser	Pro	Phe	Pro	Asp	Cys	Cys	Ile
		35					40					45			

Ala	Phe	Xaa	Phe	Ala	Tyr	Ser	Ser	Ser	Pro	Leu	Ser	Ser	Gly	Asp	Thr
	50					55					60				

Phe	Gln	Gly	Pro	Gln
65				

&lt;210&gt; 170

&lt;211&gt; 135

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (33)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (129)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 170

Ala	Lys	Met	Pro	Trp	Thr	Cys	Ser	Val	Ser	Asp	Pro	Thr	Ser	Cys	Asp
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

[illegible]

<210> 171

<211> 50

<212> PRT

<213> Homo sapiens

<400> 171

Met Leu Leu Leu Val Val Thr Leu Val Asn Leu Ser Ile Tyr Lys Leu  
1 5 10 15

Ile Lys Leu Val Thr Ala Leu Ser Lys Lys Leu Gly Ala Lys Gly Val  
20 25 30

Leu Lys Asn Ala His Phe Met Arg Cys Asn Cys Gly Glu Met Arg Thr  
35 40 45

Arg Ser  
50

<210> 172

<211> 77

<212>. PRT

<213> Homo sapiens

<400> 172

Met Ala Thr Thr Gly Thr Lys Pro Thr Ser Cys Trp Cys Trp Phe Leu  
1 5 10 15

Leu Ala Met Cys Trp Phe Val Gln Leu Arg Thr Glu Trp Glu Arg Ala  
20 25 30

Phe Leu Phe Val Pro Ile Ala Arg Glu Pro Gly Arg Leu Cys Arg Phe  
                   35                                  40                                  45

Ser Gly Asn Lys Gln Leu Asn Gly Leu Ala Val Ala Leu Gln Ala Phe  
           50                                  55                                  60

Arg Phe Ala Lys Asn Lys Thr Ser Gln Lys Arg Cys Ala  
       65                                  70                                  75

<210> 173  
 <211> 77  
 <212> PRT  
 <213> Homo sapiens

<400> 173  
 Met Ala Thr Thr Gly Thr Lys Pro Thr Ser Cys Trp Cys Trp Phe Leu  
       1                                  5                                  10                                  15

Leu Ala Met Cys Trp Phe Val Gln Leu Arg Thr Glu Trp Glu Arg Ala  
                   20                                  25                                  30

Phe Leu Phe Val Pro Ile Ala Arg Glu Pro Gly Arg Leu Cys Arg Phe  
                   35                                  40                                  45

Ser Gly Asn Lys Gln Leu Asn Gly Leu Ala Val Ala Leu Gln Ala Phe  
           50                                  55                                  60

Arg Phe Ala Lys Asn Lys Thr Ser Gln Lys Arg Cys Ala  
       65                                  70                                  75

<210> 174  
 <211> 56  
 <212> PRT  
 <213> Homo sapiens

<400> 174  
 Cys Asp Val Lys Pro Ala Asp Val Lys Asp Ile Gly Gly Thr Val Glu  
       1                                  5                                  10                                  15

Ala Ser Cys Met Asn Phe Ser Trp Pro Ala Pro Thr Ala Gln Val His  
                   20                                  25                                  30

Thr Arg Lys Arg Arg Val Trp Ala Cys Leu Arg Val Asp Val Ser Ser  
           35                                  40                                  45

Glu Val Arg Pro Gly Lys Ala Leu  
       50                                  55

<210> 175  
 <211> 68  
 <212> PRT  
 <213> Homo sapiens

<220>



<221> SITE  
 <222> (44)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (57)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 175  
 Met Ala Gln Ser Arg Val Leu Leu Leu Leu Leu Leu Pro Pro Gln  
           1                          5                          10                          15  
 Leu Ala Pro Gly Thr Cys Ala Cys Arg Glu Gly Pro Arg Ile Trp Pro  
                           20                          25                          30  
 Asn Gly Gly His Ser Leu Ser Pro Glu Glu Asn Xaa Leu Arg Lys Lys  
                           35                          40                          45  
 Ser Arg Leu Leu Leu Ile Glu Ala Xaa Lys Lys Pro Gly Ala Trp Ala  
           50                          55                          60  
 Gln Ala Ala Val  
       65

<210> 176  
 <211> 85  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (26)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 176  
 Met Ala Gln Ser Arg Val Leu Leu Leu Leu Leu Leu Pro Pro Gln  
           1                          5                          10                          15  
 Leu His Leu Gly Pro Val Leu Ala Val Xaa Ala Pro Gly Phe Gly Arg  
                           20                          25                          30  
 Ser Gly Gly His Ser Leu Ser Pro Glu Glu Asn Glu Phe Ala Glu Glu  
           35                          40                          45  
 Glu Pro Val Leu Val Leu Ser Pro Glu Glu Pro Gly Pro Gly Pro Ala  
           50                          55                          60  
 Ala Val Ser Cys Pro Arg Asp Cys Ala Cys Ser Gln Glu Gly Val Val  
       65                          70                          75                          80  
 Asp Cys Gly Gly Tyr  
                           85

<210> 177  
 <211> 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 177

Met Ile Tyr Gln Ile Tyr Gly Ile Ile Cys Ser Leu Phe Pro  
 1 5 10

&lt;210&gt; 178

&lt;211&gt; 31

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 178

Gly Pro Phe Cys Asp Val Thr Thr Leu His Leu Pro Gly Leu Leu Cys  
 1 5 10 15

Thr Gln Cys Ser Leu Asp Pro Val Asp Leu Tyr Leu Trp Arg Ser  
 20 25 30

&lt;210&gt; 179

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 179

Met Ile Tyr Gln Ile Tyr Gly Ile Ile Cys Ser Leu Phe Pro  
 1 5 10

&lt;210&gt; 180

&lt;211&gt; 71

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (71)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 180

Thr Met Gly Pro Gly Asp Arg His Arg Leu Pro Val Tyr Leu Gly His  
 1 5 10 15

Cys Leu Gly Cys Leu Glu Ser Gly Leu Leu Ala Gln Ile Leu Pro Leu  
 20 25 30

Leu Gly Gln Gly Arg Pro Phe Met Asp Ser Leu Ile Arg Val Ala Ala  
 35 40 45

Glu Arg Arg Ala Gly Gln Val Leu Lys Gly Thr Leu Lys Arg Phe Ser  
 50 55 60

Glu Arg Gln Gly Arg Arg Xaa  
 65 70

<210> 181  
 <211> 204  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (1)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (5)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (8)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 181  
 Xaa Pro Ser Leu Xaa Gly Thr Xaa Ala Gly Gly Ser Thr Ala Val Ala  
           1                  5                  10                  15  
 Ala Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn Ser Ala Arg  
                   20                  25                  30  
 Ala Ala Ala Glu Leu Ser Leu Leu Glu Lys Ser Leu Gly Leu Ser Lys  
                   35                  40                  45  
 Gly Asn Lys Tyr Ser Ala Gln Gly Glu Arg Gln Ile Pro Val Leu Gln  
           50                  55                  60  
 Thr Asn Asn Gly Pro Ser Leu Thr Gly Leu Thr Thr Ile Ala Ala His  
           65                  70                  75                  80  
 Leu Val Lys Gln Ala Asn Lys Glu Tyr Leu Leu Gly Ser Thr Ala Glu  
                   85                  90                  95  
 Glu Lys Ala Ile Val Gln Gln Trp Leu Glu Tyr Arg Val Thr Gln Val  
                   100                  105                  110  
 Asp Gly His Ser Ser Lys Asn Asp Ile His Thr Leu Leu Lys Asp Leu  
           115                  120                  125  
 Asn Ser Tyr Leu Glu Asp Lys Val Tyr Leu Thr Gly Tyr Asn Phe Thr  
           130                  135                  140  
 Leu Ala Asp Ile Leu Leu Tyr Tyr Gly Leu His Arg Phe Ile Val Asp  
           145                  150                  155                  160  
 Leu Thr Val Gln Glu Lys Glu Lys Tyr Leu Asn Val Ser Arg Trp Phe  
                   165                  170                  175  
 Cys His Ile Gln His Tyr Pro Gly Ile Arg Gln His Leu Ser Ser Val  
           180                  185                  190  
 Val Phe Ile Lys Asn Arg Leu Tyr Thr Asn Ser His

195

200

<210> 182  
<211> 54  
<212> PRT  
<213> Homo sapiens

<400> 182  
Met Thr Ser Pro Leu Ala Arg Leu Leu Leu Pro Phe Trp Cys His Thr  
1 5 10 15  
Leu Gly Thr Met Ala Leu Gly Thr Pro Asn Pro Gly Ala Met Ala Trp  
20 25 30  
Gly Ala Val Gly Glu Pro Asn Pro Gly Ala Trp Thr Val Pro Leu Gly  
35 40 45  
Ala Phe Leu Ala Gly Arg  
50

<210> 183  
<211> 54  
<212> PRT  
<213> Homo sapiens

<400> 183  
Met Thr Ser Pro Leu Ala Arg Leu Leu Leu Pro Phe Trp Cys His Thr  
1 5 10 15  
Leu Gly Thr Met Ala Leu Gly Thr Pro Asn Pro Gly Ala Met Ala Trp  
20 25 30  
Gly Ala Val Gly Glu Pro Asn Pro Gly Ala Trp Thr Val Pro Leu Gly  
35 40 45  
Ala Phe Leu Ala Gly Arg  
50

<210> 184  
<211> 1  
<212> PRT  
<213> Homo sapiens

<400> 184  
Ser  
1

<210> 185  
<211> 3  
<212> PRT  
<213> Homo sapiens

<400> 185  
 Leu Leu Cys  
 1

<210> 186  
 <211> 1  
 <212> PRT  
 <213> Homo sapiens

<400> 186  
 Ser  
 1

<210> 187  
 <211> 5  
 <212> PRT  
 <213> Homo sapiens

<400> 187  
 Ala Gly Thr Trp Ser  
 1 5

<210> 188  
 <211> 45  
 <212> PRT  
 <213> Homo sapiens

<400> 188  
 Met Ala Gly Val Trp Asn Thr Ile Ala Leu Trp Phe Leu Ser Val Phe  
 1 5 10 15

Gly Val Ile Ser Ala Pro Thr Thr Gly Thr Ser Pro Thr Ser Cys Arg  
 20 25 30

Cys Val Gly Pro Arg Pro Pro Gly Cys Gly Pro Ala Gly  
 35 40 45

<210> 189  
 <211> 46  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (21)  
 <223> Xaa equals any of the naturally occurring L-amino acids.

<400> 189  
 Leu Ile Asn Val Thr Asn Val Gly Ile Ile Leu Ala Val Ser Gln Pro  
 1 5 10 15

Leu Asp Asp Ile Xaa Glu Phe Ile Ile Glu Lys Arg Ser Asp Tyr Asn

20

25

30

Lys Tyr Arg Lys Glu Asn Met Trp Leu Pro Leu Asn Pro Tyr  
 35 40 45

&lt;210&gt; 190

&lt;211&gt; 304

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (15)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (30)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (32)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (187)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 190

Met Leu Gln Phe Gln Arg Thr Trp Lys Tyr Lys Gly Glu Phe Xaa Leu  
 1 5 10 15

His Gln Gly Asn Ala Glu Arg His Phe Met Gln Val Thr Xaa Val Xaa  
 20 25 30

Glu Ile Ser Thr Gly Lys Arg Asp Asn Glu Phe Ser Asn Ser Gly Arg  
 35 40 45

Ser Ile Pro Leu Lys Ser Val Phe Leu Thr Gln Gln Lys Val Pro Thr  
 50 55 60

Ile Gln Gln Val His Lys Phe Asp Ile Tyr Asp Lys Leu Phe Pro Gln  
 65 70 75 80

Asn Ser Val Ile Ile Glu Tyr Lys Arg Leu His Ala Glu Lys Glu Ser  
 85 90 95

Leu Ile Gly Asn Glu Cys Glu Glu Phe Asn Gln Ser Thr Tyr Leu Ser  
 100 105 110

Lys Asp Ile Gly Ile Pro Pro Gly Glu Lys Pro Tyr Glu Ser His Asp  
 115 120 125

Phe Ser Lys Leu Leu Ser Phe His Ser Leu Phe Thr Gln His Gln Thr  
 130 135 140

Thr His Phe Gly Lys Leu Pro His Gly Tyr Asp Glu Cys Gly Asp Ala  
 145 150 155 160  
 Phe Ser Cys Tyr Ser Phe Phe Thr Gln Pro Gln Arg Ile His Ser Gly  
 165 170 175  
 Glu Lys Pro Tyr Ala Cys Asn Asp Cys Gly Xaa Ala Phe Ser Pro Thr  
 180 185 190  
 Ser Phe Ser Val Asn Ile Lys Glu Leu Ile Leu Gly Arg Asn Leu Met  
 195 200 205  
 Asn Val Arg Asn Val Thr Lys Leu Ser Asp Arg Val Leu Thr Leu Leu  
 210 215 220  
 Asn Ile Arg Gly Ser Thr Leu Glu Arg Asn Arg Leu Arg Ala Met Asn  
 225 230 235 240  
 Val Gly Arg Pro Leu Ala Val Met Pro Ser Leu Leu Asn Ile Arg Glu  
 245 250 255  
 Phe Thr Gln Val Arg Asn His Met Asn Val Lys Asn Val Ile Lys Pro  
 260 265 270  
 Ser Asp Arg Val Leu Thr Leu Ile Asn Ile Arg Gly Phe Thr Leu Glu  
 275 280 285  
 Arg Asn Pro Met Asn Val Ile Ser Val Glu Lys Pro Ser Ala Asp Ala  
 290 295 300

&lt;210&gt; 191

&lt;211&gt; 336

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 191

Met Asp Thr Met Asn Val Val Met Pro Leu Ala Val Thr His Ser Leu  
 1 5 10 15  
 Leu Asn Leu Arg Glu Phe Thr Val Val Glu Lys Pro Tyr Ala Cys Asn  
 20 25 30  
 Asp Cys Gly Lys Ala Phe Ser His Asp Phe Phe Leu Ser Glu His Gln  
 35 40 45  
 Arg Thr His Ile Gly Glu Lys Pro Tyr Glu Cys Lys Glu Cys Asn Lys  
 50 55 60  
 Ala Phe Arg Gln Ser Ala His Leu Ala Gln His Gln Arg Ile His Thr  
 65 70 75 80  
 Gly Glu Lys Pro Phe Ala Cys Asn Glu Cys Gly Lys Ala Phe Ser Arg  
 85 90 95  
 Tyr Ala Phe Leu Val Glu His Gln Arg Ile His Thr Gly Glu Lys Pro

100							105							110						
Tyr	Glu	Cys	Lys	Glu	Cys	Asn	Lys	Ala	Phe	Arg	Gln	Ser	Ala	His	Leu					
		115					120					125								
Asn	Gln	His	Gln	Arg	Ile	His	Thr	Gly	Glu	Lys	Pro	Tyr	Glu	Cys	Asn					
		130				135						140								
Gln	Cys	Gly	Lys	Ala	Phe	Ser	Arg	Arg	Ile	Ala	Leu	Thr	Leu	His	Gln					
145					150					155					160					
Arg	Ile	His	Thr	Gly	Glu	Lys	Pro	Phe	Lys	Cys	Ser	Glu	Cys	Gly	Lys					
				165					170					175						
Thr	Phe	Gly	Tyr	Arg	Ser	His	Leu	Asn	Gln	His	Gln	Arg	Ile	His	Thr					
			180					185					190							
Gly	Glu	Lys	Pro	Tyr	Glu	Cys	Ile	Lys	Cys	Gly	Lys	Phe	Phe	Arg	Thr					
		195					200					205								
Asp	Ser	Gln	Leu	Asn	Arg	His	His	Arg	Ile	His	Thr	Gly	Glu	Arg	Pro					
	210					215					220									
Phe	Glu	Cys	Ser	Lys	Cys	Gly	Lys	Ala	Phe	Ser	Asp	Ala	Leu	Val	Leu					
225					230					235					240					
Ile	His	His	Lys	Arg	Ser	His	Ala	Gly	Glu	Lys	Pro	Tyr	Glu	Cys	Asn					
				245					250					255						
Lys	Cys	Gly	Lys	Ala	Phe	Ser	Cys	Gly	Ser	Tyr	Leu	Asn	Gln	His	Gln					
			260					265					270							
Arg	Ile	His	Thr	Gly	Glu	Lys	Pro	Tyr	Glu	Cys	Ser	Glu	Cys	Gly	Lys					
		275					280					285								
Ala	Phe	His	Gln	Ile	Leu	Ser	Leu	Arg	Leu	His	Gln	Arg	Ile	His	Ala					
		290				295					300									
Gly	Glu	Lys	Pro	Tyr	Lys	Cys	Asn	Glu	Cys	Gly	Asn	Asn	Phe	Ser	Cys					
305					310					315					320					
Val	Ser	Ala	Leu	Arg	Arg	His	Gln	Arg	Ile	His	Asn	Arg	Glu	Thr	Leu					
				325					330					335						

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<210> 192
<211> 54
<212> PRT
<213> Homo sapiens
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<400> 192  
Leu Ala Ala Thr Arg Lys Phe Phe Leu Ser Ser His Ser Ser Ser Cys  
1 5 10 15

Lys Lys Gly Ala Met Ser Gln Lys Glu Ala Pro Phe His Arg Gln Arg  
20 25 30



Leu His Arg Glu Arg Gly Asn Arg Arg Leu Gly Asn Gly Gly Glu Trp  
                   35                                  40                                  45

Gly Arg Asn Trp Val Gln  
                   50

<210> 193

<211> 27

<212> PRT

<213> Homo sapiens

<400> 193

Met His Gln Leu Phe Gly Leu Phe Val Thr Leu Met Phe Ala Ser Val  
           1                                  5                                  10                                  15

Gly Gly Gly Leu Gly Gly Ile Ile Leu Val Leu  
                   20                                  25

<210> 194

<211> 106

<212> PRT

<213> Homo sapiens

<400> 194

Met Pro Gly Val Leu Gly Ala Leu Leu Gly Val Leu Val Ala Gly Leu  
           1                                  5                                  10                                  15

Ala Thr His Glu Ala Tyr Gly Asp Gly Leu Glu Ser Val Phe Pro Leu  
                   20                                  25                                  30

Ile Ala Glu Gly Gln Arg Ser Ala Thr Ser Gln Ala Met His Gln Leu  
           35                                  40                                  45

Phe Gly Leu Phe Val Thr Leu Met Phe Ala Ser Val Gly Gly Gly Leu  
           50                                  55                                  60

Gly Gly Ile Ile Leu Val Leu Cys Leu Leu Asp Pro Cys Ala Leu Trp  
           65                                  70                                  75                                  80

His Trp Val Ala Pro Ser Ser Met Val Gly Gly Arg Glu Ala Ser Gln  
                   85                                  90                                  95

Ile Leu Pro Tyr His His Gln Gly Ser Cys  
                   100                                  105

<210> 195

<211> 60

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 195

Asn Leu Xaa Cys Cys Glu Pro Leu Lys Gly Thr Glu Ile Val His Leu  
1 5 10 15

Xaa Ser Ser Asp Phe Lys Ala Val Ala Cys Arg Cys Ser Gln Leu Asn  
20 25 30

Lys Ala Leu Pro Ser Thr Thr Leu Arg Gly Phe Val Cys Gly Ser Ser  
35 40 45

Cys Tyr Ile Ser Trp Phe Pro Asn Gln Glu Thr Arg  
50 55 60

<210> 196

<211> 82

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 196

Pro Gly Asn Glu Val Thr Asp Gly Gln Pro Arg Gln Pro Leu Arg Arg  
1 5 10 15

Leu Arg Leu Pro Cys Gly Ala Ser Leu Xaa Arg Xaa Pro Ala Ser Pro  
20 25 30

Ser Asp Ala Ile Gln Arg Ala Leu Pro Gly Arg Lys Leu Pro Arg Trp  
35 40 45

Asn Ala Ser Pro Glu Gln Arg Val Ala Val Pro Cys Gly Gly Leu Thr  
50 55 60

Gln Trp Leu Asn Thr Gly Lys Glu Leu Ala Leu Gly Val Arg Thr Ser  
65 70 75 80

Glu Thr

<210> 197

<211> 94

<212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (2)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 197  
 Arg Xaa Pro Ile Phe Ile Gly Glu Asn Phe Tyr Pro Pro Val Arg Gly  
 1 5 10 15  
 Arg Val Gly Met Ser Ala Cys Gln Gly Gly Gly Gly Gly Gly Gly Gly  
 20 25 30  
 Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly  
 35 40 45  
 Gly Gly Gly Gly Val Asp Lys Leu Pro Cys Leu Thr Met Cys Trp Cys  
 50 55 60  
 Gly Asn Gly Ala Gln Pro Ala Arg Leu Lys Val Asp Gly Ile Pro Thr  
 65 70 75 80  
 Gly Gln Arg Lys Ser Tyr Ala Asp Thr Pro Ala Trp Pro Gly  
 85 90

<210> 198  
 <211> 257  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (27)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 198  
 Met Thr Ala Ala Val Phe Phe Gly Cys Ala Phe Ile Ala Phe Gly Pro  
 1 5 10 15  
 Ala Leu Ala Leu Tyr Val Phe Thr Ile Ala Xaa Glu Pro Leu Arg Ile  
 20 25 30  
 Ile Phe Leu Ile Ala Gly Ala Phe Phe Trp Leu Val Ser Leu Leu Ile  
 35 40 45  
 Ser Ser Leu Val Trp Phe Met Ala Arg Val Ile Ile Asp Asn Lys Asp  
 50 55 60  
 Gly Pro Thr Gln Lys Tyr Leu Leu Ile Phe Gly Ala Phe Val Ser Val  
 65 70 75 80  
 Tyr Ile Gln Glu Met Phe Arg Phe Ala Tyr Tyr Lys Leu Leu Lys Lys  
 85 90 95  
 Ala Ser Glu Gly Leu Lys Ser Ile Asn Pro Gly Glu Thr Ala Pro Ser  
 100 105 110

Met Arg Leu Leu Ala Tyr Val Ser Gly Leu Gly Phe Gly Ile Met Ser  
 115 120 125

Gly Val Phe Ser Phe Val Asn Thr Leu Ser Asp Ser Leu Gly Pro Gly  
 130 135 140

Thr Val Gly Ile His Gly Asp Ser Pro Gln Phe Phe Leu Tyr Ser Ala  
 145 150 155 160

Phe Met Thr Leu Val Ile Ile Leu Leu His Val Phe Trp Gly Ile Val  
 165 170 175

Phe Phe Asp Gly Cys Glu Lys Lys Lys Trp Gly Ile Leu Leu Ile Val  
 180 185 190

Leu Leu Thr His Leu Leu Val Ser Ala Gln Thr Phe Ile Ser Ser Tyr  
 195 200 205

Tyr Gly Ile Asn Leu Ala Ser Ala Phe Ile Ile Leu Val Leu Met Gly  
 210 215 220

Thr Trp Ala Phe Leu Ala Ala Gly Gly Ser Cys Arg Ser Leu Lys Leu  
 225 230 235 240

Cys Leu Leu Cys Gln Asp Lys Asn Phe Leu Leu Tyr Asn Gln Arg Ser  
 245 250 255

Arg

<210> 199  
 <211> 257  
 <212> PRT  
 <213> Homo sapiens

&lt;400&gt; 199

Met Thr Ala Ala Val Phe Phe Gly Cys Ala Phe Ile Ala Phe Gly Pro  
 1 5 10 15

Ala Leu Ala Leu Tyr Val Phe Thr Ile Ala Ile Glu Pro Leu Arg Ile  
 20 25 30

Ile Phe Leu Ile Ala Gly Ala Phe Phe Trp Leu Val Ser Leu Leu Ile  
 35 40 45

Ser Ser Leu Val Trp Phe Met Ala Arg Val Ile Ile Asp Asn Lys Asp  
 50 55 60

Gly Pro Thr Gln Lys Tyr Leu Leu Ile Phe Gly Ala Phe Val Ser Val  
 65 70 75 80

Tyr Ile Gln Glu Met Phe Arg Phe Ala Tyr Tyr Lys Leu Leu Lys Lys  
 85 90 95

Ala Ser Glu Gly Leu Lys Ser Ile Asn Pro Gly Glu Thr Ala Pro Ser  
 100 105 110

Met Arg Leu Leu Ala Tyr Val Ser Gly Leu Gly Phe Gly Ile Met Ser  
 115 120 125

Gly Val Phe Ser Phe Val Asn Thr Leu Ser Asp Ser Leu Gly Pro Gly  
 130 135 140

Thr Val Gly Ile His Gly Asp Ser Pro Gln Phe Phe Leu Tyr Ser Ala  
 145 150 155 160

Phe Met Thr Leu Val Ile Ile Leu Leu His Val Phe Trp Gly Ile Val  
 165 170 175

Phe Phe Asp Gly Cys Glu Lys Lys Lys Trp Gly Ile Leu Leu Ile Val  
 180 185 190

Leu Leu Thr His Leu Leu Val Ser Ala Gln Thr Phe Ile Ser Ser Tyr  
 195 200 205

Tyr Gly Ile Asn Leu Ala Ser Ala Phe Ile Ile Leu Val Leu Met Gly  
 210 215 220

Thr Trp Ala Phe Leu Ala Ala Gly Gly Ser Cys Arg Ser Leu Lys Leu  
 225 230 235 240

Cys Leu Leu Cys Gln Asp Lys Asn Phe Leu Leu Tyr Asn Gln Arg Ser  
 245 250 255

Arg

<210> 200  
 <211> 36  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (8)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (12)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (16)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (18)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 200

Trp Arg His Leu Thr Val Ser Xaa Gly Leu Gln Xaa Arg Leu Ser Xaa  
1 5 10 15

Arg Xaa Xaa Trp Glu Gly Xaa Pro Arg Ser Thr Thr Ala Ala Gly Trp  
20 25 30

Gly Arg Thr Gly  
35

<210> 201

<211> 21

<212> PRT

<213> Homo sapiens

<400> 201

His Leu Ser Leu Pro Arg Leu Leu Trp Thr Leu Gln Ile Pro Gln Cys  
1 5 10 15

Pro Gln Leu Gln Asp  
20

<210> 202

<211> 78

<212> PRT

<213> Homo sapiens

<400> 202

Asp Pro Gln Asn Ile Tyr Trp Glu His Leu Ser Ile Arg Gly Phe Ile  
1 5 10 15

Trp Trp Leu Arg Cys Leu Val Ile Asn Val Val Leu Phe Ile Leu Leu  
20 25 30

Phe Phe Leu Thr Thr Pro Ala Ile Ile Ile Thr Thr Met Asp Lys Phe  
35 40 45

Asn Val Thr Lys Pro Val Glu Tyr Leu Asn Val Arg Pro His Ala Pro  
50 55 60

Val Thr Phe His Ala Gly Ser Gln His Thr Asp Thr Arg Pro  
65 70 75

<210> 203

<211> 318

<212> PRT

<213> Homo sapiens

&lt;400&gt; 203

Met His Lys Cys Tyr Thr Phe Leu Ile Phe Met Val Leu Leu Leu Pro  
 1 5 10 15

Ser Leu Gly Leu Ser Ser Leu Asp Leu Phe Phe Arg Trp Leu Phe Asp  
 20 25 30

Lys Lys Phe Leu Ala Glu Ala Ala Ile Arg Phe Glu Cys Val Phe Leu  
 35 40 45

Pro Asp Asn Gly Ala Phe Phe Val Asn Tyr Val Ile Ala Ser Ala Phe  
 50 55 60

Ile Gly Asn Ala Met Asp Leu Leu Arg Ile Pro Gly Leu Leu Met Tyr  
 65 70 75 80

Met Ile Arg Leu Cys Leu Ala Arg Ser Ala Ala Glu Arg Arg Asn Val  
 85 90 95

Lys Arg His Gln Ala Tyr Glu Phe Arg Phe Gly Ala Ala Tyr Ala Trp  
 100 105 110

Met Met Cys Val Phe Thr Val Val Met Thr Tyr Ser Ile Thr Cys Pro  
 115 120 125

Ile Ile Val Pro Phe Gly Leu Met Tyr Met Leu Leu Lys His Leu Val  
 130 135 140

Asp Arg Tyr Asn Leu Tyr Tyr Ala Tyr Leu Pro Ala Lys Leu Asp Lys  
 145 150 155 160

Lys Ile His Ser Gly Ala Val Asn Gln Val Val Ala Ala Pro Ile Leu  
 165 170 175

Cys Leu Phe Trp Leu Leu Phe Phe Ser Thr Met Arg Thr Gly Phe Leu  
 180 185 190

Ala Pro Thr Ser Met Phe Thr Phe Val Val Leu Val Ile Thr Ile Val  
 195 200 205

Ile Cys Leu Cys His Val Cys Phe Gly His Phe Lys Tyr Leu Ser Ala  
 210 215 220

His Asn Tyr Lys Ile Glu His Thr Glu Thr Asp Thr Val Asp Pro Arg  
 225 230 235 240

Ser Asn Gly Arg Pro Pro Thr Ala Ala Ala Val Pro Lys Ser Ala Lys  
 245 250 255

Tyr Ile Ala Gln Val Leu Gln Asp Ser Glu Val Asp Gly Asp Gly Asp  
 260 265 270

Gly Ala Pro Gly Ser Ser Gly Asp Glu Pro Pro Ser Ser Ser Ser Gln  
 275 280 285

Asp Glu Glu Leu Leu Met Pro Pro Asp Ala Leu Thr Asp Thr Asp Phe  
 290 295 300

Gln Ser Cys Glu Asp Ser Leu Ile Glu Asn Glu Ile His Gln

305

310

315

&lt;210&gt; 204

&lt;211&gt; 65

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (9)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (21)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 204

Val	Val	Val	Glu	Leu	Ile	Asn	Arg	Xaa	Gln	Asn	Tyr	Phe	Gln	Tyr	Ile
1				5					10					15	

Val	Tyr	Leu	Tyr	Xaa	Lys	Arg	Asp	Gly	Pro	Phe	Tyr	Gly	Gly	Thr	Leu
		20						25					30		

Ser	Met	Val	Val	Phe	Cys	Asp	Val	Leu	Phe	Leu	Leu	Leu	Leu	Phe	Ala
		35					40					45			

Leu	Phe	Ser	Pro	Ile	Thr	Ala	Leu	Leu	Ser	Leu	Lys	Arg	Ile	Asn	Phe
	50					55					60				

Ile

65

&lt;210&gt; 205

&lt;211&gt; 50

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 205

Ala	Gln	Glu	Leu	Arg	Pro	Ala	Trp	Glu	Thr	Trp	Gln	Gly	Pro	Ile	Ser
1				5					10					15	

Thr	Glu	Thr	Thr	Glu	Asn	Trp	Val	Gly	Met	Val	Ala	Arg	Val	Pro	Ala
		20						25					30		

Ala	Gln	Glu	Ala	Glu	Val	Gly	Gly	Ser	Leu	Glu	Pro	Arg	Arg	Leu	Arg
		35					40					45			

Leu Gln

50

&lt;210&gt; 206

&lt;211&gt; 90

&lt;212&gt; PRT



&lt;213&gt; Homo sapiens

&lt;400&gt; 206

Asp Leu Thr Cys Leu Leu Ser Ser Asn Phe Ile Ile Gly Ile Asn Val  
 1 5 10 15

His Phe Phe Pro Val Pro Val Ser Glu Ala Phe Ile Cys Val Cys Met  
 20 25 30

Cys Val Leu Asn Lys Cys Ile Arg Tyr Leu Lys Asn Ser Asn Leu Asn  
 35 40 45

Leu Asn Asn Leu Lys Asn Glu Ile Val Ile Leu Cys Val Lys Val Ser  
 50 55 60

Asp Val Leu Tyr Ser Ala Leu Lys Thr Ile Phe Ile Tyr Ser Ser Thr  
 65 70 75 80

Asp Thr Lys Tyr Ile Leu Lys Leu Leu Ser  
 85 90

&lt;210&gt; 207

&lt;211&gt; 41

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 207

Met Ser Cys Leu Trp Ala Gly Ile Lys Phe Leu Gly Phe Gly Phe Cys  
 1 5 10 15

Trp Met Asp Cys Ser Leu Cys Glu Pro Ile Trp Val Cys Gln Ile Gln  
 20 25 30

Ser Leu Gly Cys His Gly Asn Leu Ala  
 35 40

&lt;210&gt; 208

&lt;211&gt; 103

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 208

Ser Leu Asp Thr Ala Leu Leu Ser Thr Leu Cys Ser Leu Ala Phe Thr  
 1 5 10 15

Ala Ala Ser Thr Ser Ser Thr Val Ala Tyr Val Thr Asn Pro Lys Pro  
 20 25 30

Leu Glu His Leu Val Phe Gly Ser Leu Ile Thr Thr Val Cys Glu Cys  
 35 40 45

Ser Leu Leu Leu Arg Met Ala His Trp Thr Leu Thr Gly His Phe Lys  
 50 55 60

Ala Gln Leu Ser Asp Glu Glu Leu Leu Gln Leu Leu Gly Leu Leu Lys  
 65 70 75 80

Arg Leu Cys Leu Arg His Asp Ser Ser Gly Lys Arg Asp Phe Asn Asp  
                             85                            90                            95

Val Phe Ser Gly Ile His Gly  
                             100

<210> 209

<211> 49

<212> PRT

<213> Homo sapiens

<400> 209

Met Arg Gln Thr Lys Leu Glu Gly Trp Leu Ile Phe Pro Leu Phe Ser  
   1                            5                            10                            15

Cys Phe Ser Phe Ile Ser Leu Gly Ser Asp Glu Gly Pro Glu Ile Phe  
                             20                            25                            30

Ile Ser His Leu Lys Ser Leu Ala Asp Tyr Ser Arg Ala Leu Val Glu  
                             35                            40                            45

Val

<210> 210

<211> 49

<212> PRT

<213> Homo sapiens

<400> 210

Met Arg Gln Thr Lys Leu Glu Gly Trp Leu Ile Phe Pro Leu Phe Ser  
   1                            5                            10                            15

Cys Phe Ser Phe Ile Ser Leu Gly Ser Asp Glu Gly Pro Glu Ile Phe  
                             20                            25                            30

Ile Ser His Leu Lys Ser Leu Ala Asp Tyr Ser Arg Ala Leu Val Glu  
                             35                            40                            45

Val

<210> 211

<211> 489

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (79)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

&lt;221&gt; SITE

&lt;222&gt; (321)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 211

Met Pro Gln Ala Ser Glu His Arg Leu Gly Arg Thr Arg Glu Pro Pro  
 1 5 10 15

Val Asn Ile Gln Pro Arg Val Gly Ser Lys Leu Pro Phe Ala Pro Arg  
 20 25 30

Ala Arg Ser Lys Glu Arg Arg Asn Pro Ala Ser Gly Pro Asn Pro Met  
 35 40 45

Leu Arg Pro Leu Pro Pro Arg Pro Gly Leu Pro Asp Glu Arg Leu Lys  
 50 55 60

Lys Leu Glu Leu Gly Arg Gly Arg Thr Ser Gly Pro Arg Pro Xaa Gly  
 65 70 75 80

Pro Leu Arg Ala Asp His Gly Val Pro Leu Pro Gly Ser Pro Pro Pro  
 85 90 95

Thr Val Ala Leu Pro Leu Pro Ser Arg Thr Asn Leu Ala Arg Ser Lys  
 100 105 110

Ser Val Ser Ser Gly Asp Leu Arg Pro Met Gly Ile Ala Leu Gly Gly  
 115 120 125

His Arg Gly Thr Gly Glu Leu Gly Ala Ala Leu Ser Arg Leu Ala Leu  
 130 135 140

Arg Pro Glu Pro Pro Thr Leu Arg Arg Ser Thr Ser Leu Arg Arg Leu  
 145 150 155 160

Gly Gly Phe Pro Gly Pro Pro Thr Leu Phe Ser Ile Arg Thr Glu Pro  
 165 170 175

Pro Ala Ser His Gly Ser Phe His Met Ile Ser Ala Arg Ser Ser Glu  
 180 185 190

Pro Phe Tyr Ser Asp Asp Lys Met Ala His His Thr Leu Leu Leu Gly  
 195 200 205

Ser Gly His Val Gly Leu Arg Asn Leu Gly Asn Thr Cys Phe Leu Asn  
 210 215 220

Ala Val Leu Gln Cys Leu Ser Ser Thr Arg Pro Leu Arg Asp Phe Cys  
 225 230 235 240

Leu Arg Arg Asp Phe Arg Gln Glu Val Pro Gly Gly Gly Arg Ala Gln  
 245 250 255

Glu Leu Thr Glu Ala Phe Ala Asp Val Ile Gly Ala Leu Trp His Pro  
 260 265 270

Asp Ser Cys Glu Ala Val Asn Pro Thr Arg Phe Arg Ala Val Phe Gln  
 275 280 285

Lys Tyr Val Pro Ser Phe Ser Gly Tyr Ser Gln Gln Asp Ala Gln Glu

290                      295                      300  
 Phe Leu Lys Leu Leu Met Glu Arg Leu His Leu Glu Ile Asn Arg Arg  
 305                      310                      315                      320  
 Xaa Arg Arg Ala Pro Pro Ile Leu Ala Asn Gly Pro Val Pro Ser Pro  
                                  325                      330                      335  
 Pro Arg Arg Gly Gly Ala Leu Leu Glu Glu Pro Glu Leu Ser Asp Asp  
                                  340                      345                      350  
 Asp Arg Ala Asn Leu Met Trp Lys Arg Tyr Leu Glu Arg Glu Asp Ser  
                                  355                      360                      365  
 Lys Ile Val Asp Leu Phe Val Gly Gln Leu Lys Ser Cys Leu Lys Cys  
                                  370                      375                      380  
 Gln Ala Cys Gly Tyr Arg Ser Thr Thr Phe Glu Val Phe Cys Asp Leu  
 385                      390                      395                      400  
 Ser Leu Pro Ile Pro Lys Lys Gly Phe Ala Gly Gly Lys Val Ser Leu  
                                  405                      410                      415  
 Arg Asp Cys Phe Asn Leu Phe Thr Lys Glu Glu Glu Leu Glu Ser Glu  
                                  420                      425                      430  
 Asn Ala Pro Val Cys Asp Arg Cys Arg Gln Lys Thr Arg Ser Thr Lys  
                                  435                      440                      445  
 Lys Leu Thr Val Gln Arg Phe Pro Arg Ile Leu Val Leu His Leu Asn  
                                  450                      455                      460  
 Arg Phe Ser Ala Ser Arg Gly Ser Ile Lys Lys Ser Ser Val Gly Val  
 465                      470                      475                      480  
 Asp Phe Ser Thr Ala Ala Thr Glu Pro  
                                  485

&lt;210&gt; 212

&lt;211&gt; 463

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 212

Ala Arg Gly Thr Asn Leu Ala Arg Ser Lys Ser Val Ser Ser Gly Asp  
 1                      5                      10                      15  
 Leu Arg Pro Met Gly Ile Ala Leu Gly Gly His Arg Gly Thr Gly Glu  
                                  20                      25                      30  
 Leu Gly Ala Ala Leu Ser Arg Leu Ala Leu Arg Pro Glu Pro Pro Thr  
                                  35                      40                      45  
 Leu Arg Arg Ser Thr Ser Leu Arg Arg Leu Gly Gly Phe Pro Gly Pro  
                                  50                      55                      60  
 Pro Thr Leu Phe Ser Ile Arg Thr Glu Pro Pro Ala Ser His Gly Ser  
 65                      70                      75                      80

Phe His Met Ile Ser Ala Arg Ser Ser Glu Pro Phe Tyr Ser Asp Asp  
                             85                            90                            95  
 Lys Met Ala His His Thr Leu Leu Leu Gly Ser Gly His Val Gly Leu  
                             100                            105                            110  
 Arg Asn Leu Gly Asn Thr Cys Phe Leu Asn Ala Val Leu Gln Cys Leu  
                             115                            120                            125  
 Ser Ser Thr Arg Pro Leu Arg Asp Phe Cys Leu Arg Arg Asp Phe Arg  
                             130                            135                            140  
 Gln Glu Val Pro Gly Gly Gly Arg Ala Gln Glu Leu Thr Glu Ala Phe  
                             145                            150                            155                            160  
 Ala Asp Val Ile Gly Ala Leu Trp His Pro Asp Ser Cys Glu Ala Val  
                             165                            170                            175  
 Asn Pro Thr Arg Phe Arg Ala Val Phe Gln Lys Tyr Val Pro Ser Phe  
                             180                            185                            190  
 Ser Gly Tyr Ser Gln Leu Asp Ala Gln Glu Phe Leu Lys Leu Leu Met  
                             195                            200                            205  
 Glu Arg Leu His Leu Glu Ile Asn Arg Arg Asp Arg Arg Ala Pro Pro  
                             210                            215                            220  
 Ile Leu Ala Asn Gly Pro Val Pro Ser Pro Pro Arg Arg Gly Gly Ala  
                             225                            230                            235                            240  
 Leu Leu Glu Glu Pro Glu Leu Ser Asp Asp Asp Arg Ala Asn Leu Met  
                             245                            250                            255  
 Trp Lys Arg Tyr Leu Glu Arg Glu Asp Ser Lys Ile Val Asp Leu Phe  
                             260                            265                            270  
 Val Gly Gln Leu Lys Ser Cys Leu Lys Cys Gln Ala Cys Gly Tyr Arg  
                             275                            280                            285  
 Ser Thr Thr Phe Glu Val Phe Cys Asp Leu Ser Leu Pro Ile Pro Lys  
                             290                            295                            300  
 Lys Gly Phe Ala Gly Gly Lys Val Ser Leu Arg Asp Cys Phe Asn Leu  
                             305                            310                            315                            320  
 Phe Thr Lys Glu Glu Glu Leu Glu Ser Glu Asn Ala Pro Val Cys Asp  
                             325                            330                            335  
 Arg Cys Arg Gln Lys Thr Arg Ser Thr Lys Lys Leu Thr Val Gln Arg  
                             340                            345                            350  
 Phe Pro Arg Ile Leu Val Leu His Leu Asn Arg Phe Ser Ala Ser Arg  
                             355                            360                            365  
 Gly Ser Ile Lys Lys Ser Ser Val Gly Val Asp Phe Pro Leu Gln Arg  
                             370                            375                            380  
 Leu Ser Leu Gly Asp Phe Ala Ser Asp Lys Ala Gly Ser Pro Val Tyr  
                             385                            390                            395                            400

Gln Leu Tyr Ala Leu Cys Asn His Ser Gly Ser Val His Tyr Gly His  
                             405                            410                            415

Tyr Thr Ala Leu Cys Arg Cys Gln Thr Gly Trp His Val Tyr Asn Asp  
                             420                            425                            430

Ser Arg Val Ser Pro Val Ser Glu Asn Gln Val Ala Ser Ser Glu Gly  
                             435                            440                            445

Tyr Val Leu Phe Tyr Gln Leu Met Gln Glu Pro Pro Arg Cys Leu  
                             450                            455                            460

<210> 213

<211> 53

<212> PRT

<213> Homo sapiens

<400> 213

Lys Ile Glu Leu Met Val Cys Thr Lys Ser Leu Val Tyr Val Leu Val  
       1                            5                            10                            15

Phe Gln Asn Asn Phe Tyr Ile Asn Ile Tyr Ile Val Lys Lys Phe Phe  
                             20                            25                            30

Leu Ile Phe Gly Trp Asp Ile Arg Lys Tyr Leu Tyr Tyr Thr Leu Ser  
                             35                            40                            45

Tyr Tyr Asn Gly Thr  
                             50

<210> 214

<211> 9

<212> PRT

<213> Homo sapiens

<400> 214

Leu Leu Ser Cys Phe Tyr Phe Phe Leu  
       1                            5

<210> 215

<211> 66

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (18)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (61)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 215  
 Met Leu Leu Leu Cys Tyr His Xaa Phe Leu Xaa Phe Val Leu Gly Thr  
           1                  5                  10                  15  
 Gly Xaa Val Asn Ile Glu Glu Ala Glu Lys Leu Leu Lys Pro Tyr Leu  
                   20                  25                  30  
 Asn Arg Tyr Pro Lys Gly Ala Ile Phe Leu Phe Phe Ala Gly Arg Ile  
           35                  40                  45  
 Glu Val Ile Lys Gly Asn Ile Asp Ala Ala Ile Arg Xaa Phe Glu Glu  
           50                  55                  60  
 Cys Cys  
       65

<210> 216  
 <211> 66  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (8)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (11)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (18)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (61)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 216  
 Met Leu Leu Leu Cys Tyr His Xaa Phe Leu Xaa Phe Val Leu Gly Thr  
           1                  5                  10                  15  
 Gly Xaa Val Asn Ile Glu Glu Ala Glu Lys Leu Leu Lys Pro Tyr Leu  
                   20                  25                  30

Asn Arg Tyr Pro Lys Gly Ala Ile Phe Leu Phe Phe Ala Gly Arg Ile  
                   35                                  40                                  45

Glu Val Ile Lys Gly Asn Ile Asp Ala Ala Ile Arg Xaa Phe Glu Glu  
           50                                  55                                  60

Cys Cys  
   65

<210> 217

<211> 43

<212> PRT

<213> Homo sapiens

<400> 217

Met Tyr Lys Ile Thr Tyr Arg Val Cys Phe Leu Cys Gln Pro Leu Met  
   1                  5                                  10                                  15

Val Gly Leu Gly Cys Ile Gly Ser Ile Ala Ile Val Leu Leu Leu Leu  
                   20                                  25                                  30

Leu Leu Val Pro His Val Cys Pro Lys Ile Leu  
           35                                  40

<210> 218

<211> 43

<212> PRT

<213> Homo sapiens

<400> 218

Met Tyr Lys Ile Thr Tyr Arg Val Cys Phe Leu Cys Gln Pro Leu Met  
   1                  5                                  10                                  15

Val Gly Leu Gly Cys Ile Gly Ser Ile Ala Ile Val Leu Leu Leu Leu  
                   20                                  25                                  30

Leu Leu Val Pro His Val Cys Pro Lys Ile Leu  
           35                                  40

<210> 219

<211> 79

<212> PRT

<213> Homo sapiens

<400> 219

Ala Pro Leu Ala Ala Ser Thr Ile Leu Ala Val Ala Ser Ala Arg Ile  
   1                  5                                  10                                  15

Leu Ala Ala Leu Lys Ser Leu Arg Glu Phe Ser Arg Ser Leu Ser Pro  
           20                                  25                                  30

Ser Ala Ser Ala Leu Met Ala Leu Thr Arg Ser Asp Val Ala Trp Ala  
           35                                  40                                  45



Arg Met Arg Ala Cys Arg Thr Ile Ser Pro Ala Ser Pro Met Glu Leu  
 50 55 60

Lys Met Phe Ser Val Thr Val Arg Met Val Ser Val Ala Trp Ser  
 65 70 75

<210> 220

<211> 72

<212> PRT

<213> Homo sapiens

<400> 220

Met Gly Thr Leu Met Val Leu Thr Arg Leu Ala Val Leu Leu Ala Thr  
 1 5 10 15

Ser Leu Ala Asp Cys Thr Asn Trp Arg Leu Ala Val Gly Leu Val Val  
 20 25 30

Arg Ala Glu Ala Arg Arg Gln Leu Leu His Ser Ala Glu Val Cys Leu  
 35 40 45

Ala Thr Met Val Ala Ala Glu Ser Thr Trp Ala Trp Val Gln Pro Gly  
 50 55 60

Ser Pro Lys Leu Trp Gln Ala Ile  
 65 70

<210> 221

<211> 72

<212> PRT

<213> Homo sapiens

<400> 221

Met Gly Thr Leu Met Val Leu Thr Arg Leu Ala Val Leu Leu Ala Thr  
 1 5 10 15

Ser Leu Ala Asp Cys Thr Asn Trp Arg Leu Ala Val Gly Leu Val Val  
 20 25 30

Arg Ala Glu Ala Arg Arg Gln Leu Leu His Ser Ala Glu Val Cys Leu  
 35 40 45

Ala Thr Met Val Ala Ala Glu Ser Thr Trp Ala Trp Val Gln Pro Gly  
 50 55 60

Ser Pro Lys Leu Trp Gln Ala Ile  
 65 70

<210> 222

<211> 43

<212> PRT

<213> Homo sapiens

&lt;400&gt; 222

Met Cys Arg Thr Gln Phe His Leu Phe Trp Phe Ile Val Thr Glu Leu  
 1 5 10 15

Ser Pro Val Ile Trp Ala Lys Ala Asn Gln Lys Leu Ser Cys Leu Ser  
 20 25 30

Gln Gln Thr Leu Val Leu Val Tyr Phe Cys Arg  
 35 40

&lt;210&gt; 223

&lt;211&gt; 84

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (36)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (37)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 223

Phe Ser Ile Phe Lys Asn His Ile Ser Leu Cys Trp Leu Ile Ile Ile  
 1 5 10 15

Asn Phe Lys His Ser Phe Leu Gln Ser Gly Phe Ser Glu Phe Phe Phe  
 20 25 30

Phe Lys Gln Xaa Xaa His Ser Phe Phe Leu Val Thr Ser Lys Gly Gly  
 35 40 45

Thr Gly Val Gly Gly Lys Glu Cys Leu Lys Met Lys Ser Leu Asp Ile  
 50 55 60

Glu Gly Pro Arg Arg Thr Gly Tyr Ala Lys Ile Ile Ser Asn Ser Ser  
 65 70 75 80

Thr Ile Leu Glu

&lt;210&gt; 224

&lt;211&gt; 43

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 224

Met Cys Arg Thr Gln Phe His Leu Phe Trp Phe Ile Val Thr Glu Leu  
 1 5 10 15

Ser Pro Val Ile Trp Ala Lys Ala Asn Gln Lys Leu Ser Cys Leu Ser  
 20 25 30

Gln Gln Thr Leu Val Leu Val Tyr Phe Cys Arg  
35 40

<210> 225  
<211> 27  
<212> PRT  
<213> Homo sapiens

<400> 225  
Pro His Cys Arg Trp Pro Gly Leu Tyr Arg Gln Leu Gly Arg Arg Arg  
1 5 10 15

Arg Ser Thr Ala Leu Leu Arg Cys His Asn Val  
20 25

<210> 226  
<211> 37  
<212> PRT  
<213> Homo sapiens

<400> 226  
Met Arg Lys Arg Arg Pro Tyr Asn Arg Trp Thr Gly Cys Trp Leu Arg  
1 5 10 15

Leu Ala Val Ser Cys Arg Trp Ala Val Ala Ile Ser Ala Ser Pro Trp  
20 25 30

Leu Arg Leu Thr Ser  
35

<210> 227  
<211> 37  
<212> PRT  
<213> Homo sapiens

<400> 227  
Met Arg Lys Arg Arg Pro Tyr Asn Arg Trp Thr Gly Cys Trp Leu Arg  
1 5 10 15

Leu Ala Val Ser Cys Arg Trp Ala Val Ala Ile Ser Ala Ser Pro Trp  
20 25 30

Leu Arg Leu Thr Ser  
35

<210> 228  
<211> 153  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE

&lt;222&gt; (98)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 228

Met Ala Ala Thr Gln Thr Gly Thr Cys Leu Met Val Ala Ala Leu Cys  
 1 5 10 15

Phe Val Leu Val Leu Gly Ser Leu Val Pro Cys Leu Pro Glu Phe Ser  
 20 25 30

Ser Gly Ser Gln Thr Val Lys Glu Asp Pro Leu Ala Ala Asp Gly Val  
 35 40 45

Tyr Thr Ala Ser Gln Met Pro Ser Arg Ser Leu Leu Phe Tyr Asp Asp  
 50 55 60

Gly Ala Gly Leu Trp Glu Asp Gly Arg Ser Thr Leu Leu Pro Met Glu  
 65 70 75 80

Pro Pro Asp Gly Trp Glu Ile Asn Pro Gly Gly Pro Ala Glu Gln Arg  
 85 90 95

Pro Xaa Asp His Leu Gln His Asp His Leu Asp Ser Thr His Glu Thr  
 100 105 110

Thr Lys Tyr Leu Ser Glu Ala Trp Pro Lys Asp Gly Gly Asn Gly Thr  
 115 120 125

Ser Pro Asp Phe Ser His Ser Lys Glu Trp Phe His Asp Arg Asp Leu  
 130 135 140

Gly Pro Asn Thr Thr Ile Lys Leu Ser  
 145 150

&lt;210&gt; 229

&lt;211&gt; 153

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 229

Met Ala Ala Thr Gln Thr Gly Thr Cys Leu Met Val Ala Ala Leu Cys  
 1 5 10 15

Phe Val Leu Val Leu Gly Ser Leu Val Pro Cys Leu Pro Glu Phe Ser  
 20 25 30

Ser Gly Ser Gln Thr Val Lys Glu Asp Pro Leu Ala Ala Asp Gly Val  
 35 40 45

Tyr Thr Ala Ser Gln Met Pro Ser Arg Ser Leu Leu Phe Tyr Asp Asp  
 50 55 60

Gly Ala Gly Leu Trp Glu Asp Gly Arg Ser Thr Leu Leu Pro Met Glu  
 65 70 75 80

Pro Pro Asp Gly Trp Glu Ile Asn Pro Gly Gly Pro Ala Glu Gln Arg  
 85 90 95

Pro Arg Asp His Leu Gln His Asp His Leu Asp Ser Thr His Glu Thr  
 100 105 110  
 Thr Lys Tyr Leu Ser Glu Ala Trp Pro Lys Asp Gly Gly Asn Gly Thr  
 115 120 125  
 Ser Pro Asp Phe Ser His Ser Lys Glu Trp Phe His Asp Arg Asp Leu  
 130 135 140  
 Gly Pro Asn Thr Thr Ile Lys Leu Ser  
 145 150

<210> 230  
 <211> 105  
 <212> PRT  
 <213> Homo sapiens

<400> 230  
 Met Cys Leu Thr Thr Ala Gly Phe Cys Leu Leu Ala Ile His Ser Phe  
 1 5 10 15  
 Ala Leu Gly Val Gln Ser Arg Gln Gln His Ser Val Pro Ile Val Phe  
 20 25 30  
 Glu Val Leu Pro Leu Arg Val Pro Glu Pro Ser Arg Val Thr Gly Cys  
 35 40 45  
 Ser Ser Phe Phe Gln Thr Lys Val Leu Cys Lys Gln His Leu Leu Gly  
 50 55 60  
 Pro Arg Ala Ser Val Asn Ile Val Leu Ala Cys Leu Ala Cys Cys His  
 65 70 75 80  
 Arg Lys Gly Leu Cys Val His Ile Pro Ala Asn Leu Met Ser Pro Ser  
 85 90 95  
 Ser Ala Lys Leu Tyr His Ser Leu His  
 100 105

<210> 231  
 <211> 37  
 <212> PRT  
 <213> Homo sapiens

<400> 231  
 Phe Cys Leu Ile Trp Ser Ala Tyr Leu Leu Met Cys Leu Phe Leu Phe  
 1 5 10 15  
 Cys Leu Phe Tyr Phe Tyr Phe Ser Val Asn Ala Arg Thr Asp Leu His  
 20 25 30  
 Val Lys Ser Gly Leu  
 35

<210> 232  
 <211> 105  
 <212> PRT  
 <213> Homo sapiens

<400> 232  
 Met Cys Leu Thr Thr Ala Gly Phe Cys Leu Leu Ala Ile His Ser Phe  
           1                  5                  10                  15  
 Ala Leu Gly Val Gln Ser Arg Gln Gln His Ser Val Pro Ile Val Phe  
                   20                  25                  30  
 Glu Val Leu Pro Leu Arg Val Pro Glu Pro Ser Arg Val Thr Gly Cys  
                   35                  40                  45  
 Ser Ser Phe Phe Gln Thr Lys Val Leu Cys Lys Gln His Leu Leu Gly  
           50                  55                  60  
 Pro Arg Ala Ser Val Asn Ile Val Leu Ala Cys Leu Ala Cys Cys His  
           65                  70                  75                  80  
 Arg Lys Gly Leu Cys Val His Ile Pro Ala Asn Leu Met Ser Pro Ser  
                   85                  90                  95  
 Ser Ala Lys Leu Tyr His Ser Leu His  
                   100                  105

<210> 233  
 <211> 5  
 <212> PRT  
 <213> Homo sapiens

<400> 233  
 Tyr Ser Pro Leu Cys  
           1                  5

<210> 234  
 <211> 40  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (15)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 234  
 Met Ala Tyr Ser Pro Leu Leu Ile Ser Leu Val Leu Ala Phe Xaa Pro  
           1                  5                  10                  15  
 Ala Ser Thr Tyr Gly Arg Ala Ser Ile Asp Phe Thr Cys Phe Pro Asn  
                   20                  25                  30  
 His Tyr Gly Ile Ser Asn Gln Tyr  
           35                  40

<210> 235  
 <211> 160  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (55)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 235  
 Phe Phe Asp Ser Ile Gly Ala Leu Val Pro Gln Phe Leu Ala Asn Asp  
     1                    5                    10                    15  
 Asp Glu Leu Ser Ser His Thr Tyr Gly Leu Leu Val Asn Lys Asn Asn  
                     20                    25                    30  
 His Leu Gly His Leu Ala Val Cys Ile Ser Gln Cys Ile Trp Gly Leu  
             35                    40                    45  
 Leu Ser Pro Cys Glu Leu Xaa Gly Ile Ser Leu Gly Ser Ile Ile Leu  
     50                    55                    60  
 Phe Cys Pro Thr Pro Cys Ser Met Gln Thr Pro Ser Pro Ala Cys Trp  
     65                    70                    75                    80  
 Ser Pro Ser Gly Asn Pro Gly Leu Ala His Thr Leu Cys Trp Arg Ala  
                     85                    90                    95  
 Cys Thr Leu Met Pro Leu Leu Arg Leu Gly Pro Tyr Leu Val Thr Leu  
             100                    105                    110  
 Phe Ala Leu Pro Ser Glu Thr Glu Gln Leu Ala Pro Ser Ala Leu Val  
     115                    120                    125  
 Val Pro Cys Glu Ala Leu Leu Leu Ser Gly Phe Leu His Arg Asp Pro  
     130                    135                    140  
 Cys Arg Leu Pro Ala Asp Met Gln Asp Ala Leu Leu Ser Val Asp Val  
     145                    150                    155                    160

<210> 236  
 <211> 40  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (15)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 236  
 Met Ala Tyr Ser Pro Leu Leu Ile Ser Leu Val Leu Ala Phe Xaa Pro

1	5	10	15
Ala Ser Thr Tyr Gly Arg Ala Ser Ile Asp Phe Thr Cys Phe Pro Asn			
	20	25	30
His Tyr Gly Ile Ser Asn Gln Tyr			
	35	40	

<210> 237  
 <211> 236  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (3)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (29)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (70)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (73)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (80)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (97)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (112)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (117)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (122)  
 <223> Xaa equals any of the naturally occurring L-amino acids



&lt;400&gt; 237

Met Glu Xaa Pro Ala Gln Leu Leu Phe Leu Leu Leu Leu Trp Leu Pro  
 1 5 10 15

Asp Thr Thr Gly Glu Ile Val Leu Thr Gln Ser Pro Xaa Thr Leu Ser  
 20 25 30

Leu Ser Pro Gly Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser  
 35 40 45

Val Ser Ser Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro  
 50 55 60

Arg Leu Leu Ile Tyr Xaa Ala Ser Xaa Arg Ala Thr Gly Ile Pro Xaa  
 65 70 75 80

Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser  
 85 90 95

Xaa Leu Glu Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Arg Xaa  
 100 105 110

Asn Trp Pro Pro Xaa Tyr Thr Phe Gly Xaa Gly Thr Lys Val Glu Ile  
 115 120 125

Lys Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp  
 130 135 140

Glu Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn  
 145 150 155 160

Phe Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu  
 165 170 175

Gln Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp  
 180 185 190

Ser Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr  
 195 200 205

Glu Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser  
 210 215 220

Ser Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys  
 225 230 235

&lt;210&gt; 238

&lt;211&gt; 144

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 238

Met Arg Val Pro Ala Gln Leu Leu Gly Leu Leu Leu Leu Trp Leu Ser  
 1 5 10 15

Gly Ala Lys Cys Asp Thr Gln Met Thr Gln Ser Pro Ser Ser Leu Ser  
 20 25 30

Ala Ser Val Gly Asp Thr Val Thr Ile Thr Cys Gln Ala Ser Asp Asp  
                   35                                  40                                  45  
 Ile Ser Lys Asp Leu Asn Trp Phe Gln Gln Lys Pro Gly Thr Ala Pro  
                   50                                  55                                  60  
 Lys Leu Leu Ile Phe Asp Ala Ser Asn Leu Glu Thr Gly Val Pro Ser  
                   65                                  70                                  75                                  80  
 Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Phe Thr Ile Ser  
                                   85                                  90                                  95  
 Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Tyr Asp  
                                   100                                  105                                  110  
 Asn Pro Pro Ser Leu Ser Ala Glu Gly Pro Lys Trp Arg Ser Asn Glu  
                                   115                                  120                                  125  
 Leu Trp Leu His His Leu Ser Ser Ser Ser Arg His Leu Met Ser Ser  
                   130                                  135                                  140

<210> 239

<211> 50

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 239

Val His Ala Xaa Thr Pro Phe Ala Gly Xaa Cys Phe Asp Pro Val Ser  
 1 5 10 15

Leu Tyr Trp Cys Tyr Xaa Asn Pro Gly Thr His Cys Tyr Pro Thr Leu  
 20 25 30

Arg Gly Xaa Glu Gln Arg Xaa Pro Ser Xaa Arg Ser His Ile Val Leu  
 35 40 45

Arg Ser  
 50

&lt;210&gt; 240

&lt;211&gt; 64

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 240

Met Val Ser Pro Leu Ile Ser Ala Leu Phe His Val Pro Phe Leu Trp  
 1 5 10 15

Leu Gly Met Phe Phe Pro His Ser Leu Ser Gly Pro Phe Pro Ser His  
 20 25 30

Leu Arg Arg Ala Ser Ser Ser Arg Lys Pro Leu Val Lys Pro Pro Arg  
 35 40 45

Ala Arg Gln Tyr Pro Pro Leu Ala Ser Ser Gly Tyr Arg Gly Arg Ile  
 50 55 60

&lt;210&gt; 241

&lt;211&gt; 26

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 241

Met Ser Phe Pro His Ala Ser Thr Leu Pro Phe His Lys Leu Ser Asp  
 1 5 10 15

Leu Gln His Thr Leu Pro Asn His Gln Gly  
 20 25

&lt;210&gt; 242

&lt;211&gt; 64

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 242

Met Val Ser Pro Leu Ile Ser Ala Leu Phe His Val Pro Phe Leu Trp

1                      5                      10                      15  
 Leu Gly Met Phe Phe Pro His Ser Leu Ser Gly Pro Phe Pro Ser His  
                     20                      25                      30  
 Leu Arg Arg Ala Ser Ser Ser Arg Lys Pro Leu Val Lys Pro Pro Arg  
                     35                      40                      45  
 Ala Arg Gln Tyr Pro Pro Leu Ala Ser Ser Gly Tyr Arg Gly Arg Ile  
                     50                      55                      60

&lt;210&gt; 243

&lt;211&gt; 61

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (21)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (27)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (31)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 243

Phe Asn Phe Lys Phe Ala His Arg Pro Ser Asn Pro Leu Val Asn Leu  
                     1                      5                      10                      15

Thr Val Ser Pro Xaa Arg Asn Ser Ser Leu Xaa Thr Arg Lys Xaa Pro  
                     20                      25                      30

Cys Arg Glu Ser Lys Lys Phe Asn Thr His Ser Arg Pro Lys Ser Ser  
                     35                      40                      45

His Gln Leu Arg Lys Arg Ser Ser Ser Thr Pro Thr Thr  
                     50                      55                      60

&lt;210&gt; 244

&lt;211&gt; 56

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 244

Met Leu Ile Phe Leu Lys Cys Leu Thr Val Ser Tyr Ala Lys Tyr Ser  
                     1                      5                      10                      15

Ser Lys Ile Tyr Thr Ala Val Ser Asn Thr Phe Ser Thr Ala Ser Asp  
                           20                          25                          30

Ser Trp Leu Cys Val Lys Thr Pro Arg Gly Tyr His Trp Phe Met Ser  
                           35                          40                          45

Leu Glu Thr Pro Asp Ile Glu Gln  
           50                          55

<210> 245  
 <211> 10  
 <212> PRT  
 <213> Homo sapiens

<400> 245  
 Val Leu Leu Phe Leu Ser Leu Leu Thr Ser  
       1                          5                          10

<210> 246  
 <211> 56  
 <212> PRT  
 <213> Homo sapiens

<400> 246  
 Met Leu Ile Phe Leu Lys Cys Leu Thr Val Ser Tyr Ala Lys Tyr Ser  
       1                          5                          10                          15

Ser Lys Ile Tyr Thr Ala Val Ser Asn Thr Phe Ser Thr Ala Ser Asp  
                           20                          25                          30

Ser Trp Leu Cys Val Lys Thr Pro Arg Gly Tyr His Trp Phe Met Ser  
                           35                          40                          45

Leu Glu Thr Pro Asp Ile Glu Gln  
       50                          55

<210> 247  
 <211> 75  
 <212> PRT  
 <213> Homo sapiens

<400> 247  
 Glu Asp Met Pro Arg Arg Lys Glu Glu Leu Thr Asp Tyr Gln Lys Lys  
       1                          5                          10                          15

Lys Val Ile Leu Gln Asn Leu Lys His Ser Leu Phe Leu Ser Leu Leu  
                           20                          25                          30

Ser His Tyr Phe Tyr Ser Asn Pro Leu Glu Tyr Leu His Phe Ala Ser  
                           35                          40                          45

Glu Gln Arg Asp Lys Phe Phe Ser His His Val Cys Thr Gly Val Val  
       50                          55                          60

Leu Ile Leu Asp Ile Ala Gly Thr Asn Phe Ser  
 65 70 75

<210> 248  
 <211> 55  
 <212> PRT  
 <213> Homo sapiens

<400> 248  
 Met Ile Tyr Phe Ala Leu Leu Leu Ala Ser Leu Phe Phe Leu Leu Lys  
 1 5 10 15

Val Lys Ser His Phe Gly Cys Lys Asn Val Thr Thr Thr Ser Ala Arg  
 20 25 30

Ile Phe Leu Lys Pro Leu Cys Thr Pro Lys Ser Ile Phe Pro Leu Ser  
 35 40 45

Arg Tyr Gly Arg Met Ser Ser  
 50 55

<210> 249  
 <211> 55  
 <212> PRT  
 <213> Homo sapiens

<400> 249  
 Met Ile Tyr Phe Ala Leu Leu Leu Ala Ser Leu Phe Phe Leu Leu Lys  
 1 5 10 15

Val Lys Ser His Phe Gly Cys Lys Asn Val Thr Thr Thr Ser Ala Arg  
 20 25 30

Ile Phe Leu Lys Pro Leu Cys Thr Pro Lys Ser Ile Phe Pro Leu Ser  
 35 40 45

Arg Tyr Gly Arg Met Ser Ser  
 50 55

<210> 250  
 <211> 85  
 <212> PRT  
 <213> Homo sapiens

<400> 250  
 Met Leu His Asn Ala Phe Leu Phe Val Leu Phe Ala Leu Val Ser Gly  
 1 5 10 15

Tyr Gly Asn Tyr Ala Ala Thr Ala His Asp Trp Leu Tyr Glu Asn Gly  
 20 25 30

Gln Leu Ser Arg Lys Glu Ala Asp Ala Val Leu Tyr Arg Ala Leu Arg  
 35 40 45

Ala Glu Gly Val Ala Arg Trp Arg Ala Trp Leu Met Tyr Ala Gly Val  
 50 55 60

Arg Leu Gly Gly Ala Lys Gln Tyr Lys Thr Pro Thr Ser Ser Gly Phe  
 65 70 75 80

Ser Ser Ser Gly Asp  
 85

<210> 251  
 <211> 85  
 <212> PRT  
 <213> Homo sapiens

<400> 251  
 Met Leu His Asn Ala Phe Leu Phe Val Leu Phe Ala Leu Val Ser Gly  
 1 5 10 15

Tyr Gly Asn Tyr Ala Ala Thr Ala His Asp Trp Leu Tyr Glu Asn Gly  
 20 25 30

Gln Leu Ser Arg Lys Glu Ala Asp Ala Val Leu Tyr Arg Ala Leu Arg  
 35 40 45

Ala Glu Gly Val Ala Arg Trp Arg Ala Trp Leu Met Tyr Ala Gly Val  
 50 55 60

Arg Leu Gly Gly Ala Lys Gln Tyr Lys Thr Pro Thr Ser Ser Gly Phe  
 65 70 75 80

Ser Ser Ser Gly Asp  
 85

<210> 252  
 <211> 59  
 <212> PRT  
 <213> Homo sapiens

<400> 252  
 Met Ile Ile Ala Asn Ile Phe Met Asn Pro Leu Leu Cys Ala Gly Tyr  
 1 5 10 15

Leu Phe Cys Phe Ala Tyr Thr Leu Ile His Leu Ile Leu Leu Thr Thr  
 20 25 30

Ser Glu Val Cys Ser Ile Thr Ala Pro Phe Phe Thr Ala Val Leu Gln  
 35 40 45

Ser Ser Ala Cys Pro Ser Thr His Trp Pro Glu  
 50 55

<210> 253  
 <211> 59  
 <212> PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 253

Met Ile Ile Ala Asn Ile Phe Met Asn Pro Leu Leu Cys Ala Gly Tyr  
 1 5 10 15

Leu Phe Cys Phe Ala Tyr Thr Leu Ile His Leu Ile Leu Leu Thr Thr  
 20 25 30

Ser Glu Val Cys Ser Ile Thr Ala Pro Phe Phe Thr Ala Val Leu Gln  
 35 40 45

Ser Ser Ala Cys Pro Ser Thr His Trp Pro Glu  
 50 55

&lt;210&gt; 254

&lt;211&gt; 67

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 254

Met Leu Phe Leu Ile Tyr Val Ser Leu Leu Met Leu Leu Phe Ser Leu  
 1 5 10 15

Cys Leu Ser Leu Pro His Leu Gln Pro Pro Ser Leu Arg Glu Ile Leu  
 20 25 30

Ile Pro Val His Ser Leu Arg Phe Ser Leu Val Ser Pro Leu His Gly  
 35 40 45

Ser Leu Ala Ser Ser Leu Leu Leu Gln His Cys Gly Thr Leu Arg Gln  
 50 55 60

Val Phe Phe  
 65

&lt;210&gt; 255

&lt;211&gt; 67

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 255

Met Leu Phe Leu Ile Tyr Val Ser Leu Leu Met Leu Leu Phe Ser Leu  
 1 5 10 15

Cys Leu Ser Leu Pro His Leu Gln Pro Pro Ser Leu Arg Glu Ile Leu  
 20 25 30

Ile Pro Val His Ser Leu Arg Phe Ser Leu Val Ser Pro Leu His Gly  
 35 40 45

Ser Leu Ala Ser Ser Leu Leu Leu Gln His Cys Gly Thr Leu Arg Gln  
 50 55 60

Val Phe Phe  
 65



<210> 256  
 <211> 86  
 <212> PRT  
 <213> Homo sapiens

<400> 256  
 Ser Leu Lys His Phe Trp Ser Gln Gly Phe Trp Ile Lys Asp Thr Gln  
   1                  5                  10                  15  
 Cys Ala Thr Cys Arg Met Val Val Ala Arg Trp Glu Glu Arg Met Glu  
                   20                  25                  30  
 Ser Tyr Cys Leu Met Ile Gln Cys Phe Arg Leu Gly Arg Trp Lys Val  
                   35                  40                  45  
 Leu Glu Met Cys Asp Gly Tyr Gly Cys Ala Thr Met Gly Arg Tyr Leu  
   50                  55                  60  
 Val Leu Leu Asn Cys Ala His Leu Lys Met Val Lys Met Ile Asn Phe  
   65                  70                  75                  80  
 Val Tyr Val Leu Lys Gln  
                   85

<210> 257  
 <211> 52  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (36)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (37)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 257  
 Met Gln Arg Leu Gly Lys Ala Pro Gly Thr Trp Gln Ala Ile Ser Lys  
   1                  5                  10                  15  
 Cys Trp Leu Leu Leu Leu Ser Leu Pro Phe Ser Gln Ser Ile Ile  
                   20                  25                  30  
 Ile Ser Leu Xaa Xaa Gly Thr Met Ser Tyr Leu Pro Leu Tyr Phe Pro  
                   35                  40                  45  
 Gln Tyr Phe Pro  
   50

<210> 258

<211> 52  
 <212> PRT  
 <213> Homo sapiens

<400> 258  
 Met Gln Arg Leu Gly Lys Ala Pro Gly Thr Trp Gln Ala Ile Ser Lys  
     1                    5                    10                    15  
 Cys Trp Leu Leu Leu Leu Leu Ser Leu Pro Phe Ser Gln Ser Ile Ile  
                     20                    25                    30  
 Ile Ser Leu Arg Ala Gly Thr Met Ser Tyr Leu Pro Leu Tyr Phe Pro  
                     35                    40                    45  
 Gln Tyr Phe Pro  
                     50

<210> 259  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 259  
 Met Leu Cys Val Leu Leu Ala Val Ala Phe Gln Ser Ser Pro Ile Pro  
     1                    5                    10                    15  
 Gly Ala Ala Ala  
                     20

<210> 260  
 <211> 69  
 <212> PRT  
 <213> Homo sapiens

<400> 260  
 Met Ala Leu Phe Arg Pro Ile Leu Leu Pro Ala Pro Gly Ala Trp Trp  
     1                    5                    10                    15  
 Trp Pro Cys His His Ala Leu Cys Pro Ser Gly Cys Gly Phe Pro Glu  
                     20                    25                    30  
 Gln Pro His Ser Arg Cys Ser Ser Leu Glu Leu Gln Ser Ala Ser Arg  
                     35                    40                    45  
 Gln Cys Trp Leu Gln Trp Leu Gly Asp Ile Arg Pro Leu Leu Leu Gln  
                     50                    55                    60  
 Gly Arg Glu Val Thr  
                     65

<210> 261  
 <211> 51  
 <212> PRT  
 <213> Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (34)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 261

Met Gly Leu Ile Ala Ala Asp Val Asn Leu Asp Leu Leu Val Gln Val  
 1 5 10 15

Val Pro Ala Ser Cys Leu His Cys Gly Val Thr Ile Phe Pro Phe Pro  
 20 25 30

His Xaa Ile His Gln Lys Pro Val Thr Lys Arg Gly Gln Thr Pro Gly  
 35 40 45

Gln Gly Asn  
 50

&lt;210&gt; 262

&lt;211&gt; 51

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 262

Met Gly Leu Ile Ala Ala Asp Val Asn Leu Asp Leu Leu Val Gln Val  
 1 5 10 15

Val Pro Ala Ser Cys Leu His Cys Gly Val Thr Ile Phe Pro Phe Pro  
 20 25 30

His Phe Ile His Gln Lys Pro Val Thr Lys Arg Gly Gln Thr Pro Gly  
 35 40 45

Gln Gly Asn  
 50

&lt;210&gt; 263

&lt;211&gt; 13

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 263

Ser Cys Ile Ser Trp Val Phe Val Met Ile Asn Gly Leu  
 1 5 10

&lt;210&gt; 264

&lt;211&gt; 61

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 264

Met Asn Ala Ser Leu Ile Ser Trp Val Leu Val Leu His Arg Ile Cys  
 1 5 10 15

Leu Gly Leu Ser Asp Ile Pro Lys Glu Asn Cys Ile Ile Thr Ile Ser  
                     20                    25                    30

Gly Met Gln Leu Ser His His Gly Gln Ser Leu Gly Lys Trp Ala Glu  
                     35                    40                    45

Lys Leu His Val Phe Tyr Ser Leu Phe Ser Phe Leu Leu  
                     50                    55                    60

<210> 265

<211> 322

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 265

Arg Ala Pro Arg Arg Thr Gly Pro Ala Ser Phe Ser Ser Arg Pro Ala  
                     1                    5                    10                    15

Gly Thr Cys Ser Asp Asn Arg Val Thr Ser Phe Xaa Asp Leu Ile His  
                     20                    25                    30

Asp Gln Asp Glu Asp Glu Glu Glu Glu Gly Gln Arg Phe Tyr Ala  
                     35                    40                    45

Gly Gly Ser Glu Arg Ser Gly Gln Gln Ile Val Gly Pro Pro Arg Lys  
                     50                    55                    60

Lys Ser Pro Asn Glu Leu Val Asp Asp Leu Phe Lys Gly Ala Lys Glu  
                     65                    70                    75                    80

His Gly Ala Val Ala Val Glu Arg Val Thr Lys Ser Pro Gly Glu Thr  
                     85                    90                    95

Ser Lys Pro Arg Pro Phe Ala Gly Gly Gly Tyr Arg Leu Gly Ala Ala  
                     100                    105                    110

Pro Glu Glu Glu Ser Ala Tyr Val Ala Gly Glu Lys Arg Gln His Ser  
                     115                    120                    125

Ser Gln Asp Val His Val Val Leu Lys Leu Trp Lys Ser Gly Phe Ser  
                     130                    135                    140

Leu Asp Asn Gly Glu Leu Arg Ser Tyr Gln Asp Pro Ser Asn Ala Gln  
                     145                    150                    155                    160

Phe Leu Glu Ser Ile Arg Arg Gly Glu Val Pro Ala Glu Leu Arg Arg  
                     165                    170                    175

Leu Ala His Gly Gly Gln Val Asn Leu Asp Met Glu Asp His Arg Asp  
                     180                    185                    190

Glu Asp Phe Val Lys Pro Lys Gly Ala Phe Lys Ala Phe Thr Gly Glu

195					200					205				
Gly	Gln	Lys	Leu	Gly	Ser	Thr	Ala	Pro	Gln	Val	Leu	Ser	Thr	Ser
210						215					220			
Pro	Ala	Gln	Gln	Ala	Glu	Asn	Glu	Ala	Lys	Ala	Ser	Ser	Ser	Ile
225					230					235				240
Ile	Asp	Glu	Ser	Glu	Pro	Thr	Thr	Asn	Ile	Gln	Ile	Arg	Leu	Ala
				245					250					255
Gly	Gly	Arg	Leu	Val	Gln	Lys	Phe	Asn	His	Ser	His	Arg	Ile	Ser
			260					265					270	Asp
Ile	Arg	Leu	Phe	Ile	Val	Asp	Ala	Arg	Pro	Ala	Met	Ala	Ala	Thr
			275					280						Ser
Phe	Ile	Leu	Met	Thr	Thr	Phe	Pro	Asn	Lys	Glu	Leu	Ala	Asp	Glu
			290			295					300			Ser
Gln	Thr	Leu	Lys	Glu	Ala	Asn	Leu	Leu	Asn	Ala	Val	Ile	Val	Gln
305					310					315				320
Leu Thr														

<210> 266  
 <211> 61  
 <212> PRT  
 <213> Homo sapiens

<400> 266														
Met	Asn	Ala	Ser	Leu	Ile	Ser	Trp	Val	Leu	Val	Leu	His	Arg	Ile
1				5					10				15	Cys
Leu	Gly	Leu	Ser	Asp	Ile	Pro	Lys	Glu	Asn	Cys	Ile	Ile	Thr	Ile
			20					25					30	Ser
Gly	Met	Gln	Leu	Ser	His	His	Gly	Gln	Ser	Leu	Gly	Lys	Trp	Ala
		35					40					45		Glu
Lys	Leu	His	Val	Phe	Tyr	Ser	Leu	Phe	Ser	Phe	Leu	Leu		
	50					55					60			

<210> 267  
 <211> 4  
 <212> PRT  
 <213> Homo sapiens

<400> 267  
 Pro Asn Ser Pro  
 1

<210> 268

<211> 64  
 <212> PRT  
 <213> Homo sapiens

<400> 268

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Met Asp Pro Lys Leu Pro Val Ile Thr Ile Ile Ile Ile Ile Ala
 1              5              10              15

Tyr Ala Phe Val Glu Pro Leu Leu Cys Thr Trp Pro Val Thr Gly Thr
              20              25              30

Leu Ser Val Thr Gln Met Gln Val Ser His Leu Thr Leu Ala Ser Thr
              35              40              45

Leu Arg Asp Gly Phe Tyr Gln His Pro His Phe Thr Asp Glu Glu Asn
 50              55              60
  
```

<210> 269  
 <211> 64  
 <212> PRT  
 <213> Homo sapiens

<400> 269

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Met Asp Pro Lys Leu Pro Val Ile Thr Ile Ile Ile Ile Ile Ala
 1              5              10              15

Tyr Ala Phe Val Glu Pro Leu Leu Cys Thr Trp Pro Val Thr Gly Thr
              20              25              30

Leu Ser Val Thr Gln Met Gln Val Ser His Leu Thr Leu Ala Ser Thr
              35              40              45

Leu Arg Asp Gly Phe Tyr Gln His Pro His Phe Thr Asp Glu Glu Asn
 50              55              60
  
```

<210> 270  
 <211> 58  
 <212> PRT  
 <213> Homo sapiens

<400> 270

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Met Val Ser Leu Cys Ser Gly Leu Pro Ser Ser Cys Leu Leu Gly
 1              5              10              15

Ser Thr Ala Ala Ile Ile Gln Arg Gln Val Cys Leu Phe Gln Gly Ala
              20              25              30

Arg Gln Trp Asn Pro Val Ser Glu Phe Leu Arg Ala His His His Cys
 35              40              45
  
```

Gly Asn Arg Ala Gly Leu Pro Ala Val Leu  
 50 55

<210> 271  
 <211> 58  
 <212> PRT  
 <213> Homo sapiens

<400> 271  
 Met Val Ser Leu Cys Ser Gly Leu Pro Ser Ser Cys Leu Leu Leu Gly  
 1 5 10 15  
 Ser Thr Ala Ala Ile Ile Gln Arg Gln Val Cys Leu Phe Gln Gly Ala  
 20 25 30  
 Arg Gln Trp Asn Pro Val Ser Glu Phe Leu Arg Ala His His His Cys  
 35 40 45  
 Gly Asn Arg Ala Gly Leu Pro Ala Val Leu  
 50 55

<210> 272  
 <211> 122  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (19)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (73)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 272  
 Lys Ala Pro Ser Ser His Pro Gly Leu Thr Cys Val Ser Leu Ser Arg  
 1 5 10 15  
 Leu Gln Xaa Ser Leu Ser Leu Cys Phe Pro Ser Gly Pro Cys Trp Ala  
 20 25 30  
 Gly Leu Leu Ser Ser Leu Ala Leu Ala Gly Gly Ala Pro Gly Ala Leu  
 35 40 45  
 Pro Pro Trp Gln Pro Gly Gln Asp Ser Lys Met Arg Thr Ala Glu Leu  
 50 55 60  
 Val Gly Gly Ser His Gly Pro Ala Xaa Gly Pro Gly Glu Ala Glu Pro  
 65 70 75 80  
 Glu Pro Thr Ala Val Val Leu Trp Thr Val Asp Pro Glu Gly Gly Leu  
 85 90 95  
 Gly Gln Val Pro Ala Glu Gly Pro Gly Gly Leu Cys Val Pro Leu Gly

100

105

110

Pro Gly Ala Leu Val Thr Trp Thr Pro Gly  
 115 120

&lt;210&gt; 273

&lt;211&gt; 130

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 273

Ser Thr Cys Cys Gly Trp Gly Pro Leu Gly His Ser Arg Val Arg Gly  
 1 5 10 15

Cys His Cys His Leu Gly His Val Gly Arg His Gln His Phe Val Val  
 20 25 30

Thr Asn Ser Thr Val Thr Asn Ile Phe Gly Gln Ile Pro Phe Tyr Thr  
 35 40 45

Ser Arg Gln Leu Leu Val Cys Asn Pro Thr Gly Gln Arg Glu Gly Pro  
 50 55 60

Val Thr Trp Leu Ser His Cys Pro Ala Pro Gln Met Val Leu Gly Leu  
 65 70 75 80

Leu Phe Ser Leu Gly Pro Ala Asn Thr Thr Val Phe Thr Ser Ala His  
 85 90 95

Trp Leu Ser Ala Val Val Pro Gly Ser Gln Trp His Val Ser Pro Arg  
 100 105 110

Ser Ser Leu Ile Pro Gln His Thr Pro Lys Gly Ser Val Ala Asn Thr  
 115 120 125

Leu Asn  
 130

&lt;210&gt; 274

&lt;211&gt; 44

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 274

Met Arg Leu Arg Asn Gly Thr Val Ala Thr Ala Leu Ala Phe Ile Thr  
 1 5 10 15

Ser Phe Leu Thr Leu Ser Trp Tyr Thr Thr Trp Gln Asn Gly Lys Gly  
 20 25 30

Lys Glu Asn Asp Ser Glu Asn Val His Glu Met Tyr  
 35 40

&lt;210&gt; 275



<211> 216  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (6)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (18)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 275  
 Cys Phe Pro Trp Gly Xaa Ala Leu Arg Gln Lys Leu Phe Pro Ser Ala  
   1                  5                  10                  15  
 Leu Xaa Ala Leu Val Pro Ser Gly Ala Gln Pro Leu Pro Ala Thr Lys  
                   20                  25                  30  
 Asp Thr Val Leu Ala Pro Leu Arg Met Ser Gln Val Arg Ser Leu Val  
                   35                  40                  45  
 Ile Gly Leu Gln Asn Leu Leu Val Gln Lys Asp Pro Leu Leu Ser Gln  
                   50                  55                  60  
 Ala Cys Val Gly Cys Leu Glu Ala Leu Leu Asp Tyr Leu Asp Ala Arg  
   65                  70                  75                  80  
 Ser Pro Asp Ile Ala Leu His Val Ala Ser Gln Pro Trp Asn Arg Phe  
                   85                  90                  95  
 Leu Leu Phe Thr Leu Leu Asp Ala Gly Glu Asn Ser Phe Leu Arg Pro  
                   100                  105                  110  
 Glu Ile Leu Arg Leu Met Thr Leu Phe Met Arg Tyr Arg Ser Ser Ser  
                   115                  120                  125  
 Val Leu Ser His Glu Glu Val Gly Asp Val Leu Gln Gly Val Ala Leu  
                   130                  135                  140  
 Ala Asp Leu Ser Thr Leu Ser Asn Thr Thr Leu Gln Ala Leu His Gly  
   145                  150                  155                  160  
 Phe Phe Gln Gln Leu Gln Ser Met Gly His Leu Ala Asp His Ser Met  
                   165                  170                  175  
 Ala Gln Thr Leu Gln Ala Ser Leu Glu Gly Leu Pro Pro Ser Thr Ser  
                   180                  185                  190  
 Ser Gly Gln Pro Pro Leu Gln Asp Met Leu Cys Leu Gly Gly Val Ala  
                   195                  200                  205  
 Val Ser Leu Ser His Ile Arg Asn  
                   210                  215

<210> 276

<211> 122  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (92)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (100)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (109)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (116)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 276  
 Met Leu Ala Leu Thr Leu Ala Lys Ala Asp Ser Pro Arg Thr Ala Leu  
     1                    5                    10                    15  
 Leu Cys Ser Ala Trp Leu Leu Thr Ala Ser Phe Ser Ala Gln Gln His  
                     20                    25                    30  
 Lys Gly Ser Leu Gln Val His Gln Thr Leu Ser Val Glu Met Asp Gln  
                     35                    40                    45  
 Val Leu Lys Ala Leu Ser Phe Pro Lys Lys Lys Ala Ala Leu Leu Ser  
                     50                    55                    60  
 Thr Ala Ile Leu Cys Phe Leu Arg Thr Ala Leu Arg Gln Ser Phe Ser  
     65                    70                    75                    80  
 Ser Ala Trp Asn Pro Gly Ala Leu Lys Gly Pro Xaa Thr Ala Ala Thr  
                     85                    90                    95  
 Lys Asp Thr Xaa Leu Thr Ser Leu Arg Met Ser Lys Xaa Gly Pro Gly  
                     100                    105                    110  
 His Trp Ala Xaa Lys Thr Ser Trp Cys Lys  
                     115                    120

<210> 277  
 <211> 282  
 <212> PRT  
 <213> Homo sapiens

<400> 277  
 Met Leu Ala Leu Thr Leu Ala Lys Ala Asp Ser Pro Arg Thr Ala Leu  
     1                    5                    10                    15

Leu Cys Ser Ala Trp Leu Leu Thr Ala Ser Phe Ser Ala Gln Gln His  
 20 25 30  
 Lys Gly Ser Leu Gln Val His Gln Thr Leu Ser Val Glu Met Asp Gln  
 35 40 45  
 Val Leu Lys Ala Leu Ser Phe Pro Lys Lys Lys Ala Ala Leu Leu Ser  
 50 55 60  
 Ala Ala Ile Leu Cys Phe Leu Arg Thr Ala Leu Arg Gln Ser Phe Ser  
 65 70 75 80  
 Ser Ala Leu Val Ala Leu Val Pro Ser Gly Ala Gln Pro Leu Pro Ala  
 85 90 95  
 Thr Lys Asp Thr Val Leu Ala Pro Leu Arg Met Ser Gln Val Arg Ser  
 100 105 110  
 Leu Val Ile Gly Leu Gln Asn Leu Leu Val Gln Lys Asp Pro Leu Leu  
 115 120 125  
 Ser Gln Ala Cys Val Gly Cys Leu Glu Ala Leu Leu Asp Tyr Leu Asp  
 130 135 140  
 Ala Arg Ser Pro Asp Ile Ala Leu His Val Ala Ser Gln Pro Trp Asn  
 145 150 155 160  
 Arg Phe Leu Leu Phe Thr Leu Leu Asp Ala Gly Glu Asn Ser Phe Leu  
 165 170 175  
 Arg Pro Glu Ile Leu Arg Leu Met Thr Leu Phe Met Arg Tyr Arg Ser  
 180 185 190  
 Ser Ser Val Leu Ser His Glu Glu Val Gly Asp Val Leu Gln Gly Val  
 195 200 205  
 Ala Leu Ala Asp Leu Ser Thr Leu Ser Asn Thr Thr Leu Gln Ala Leu  
 210 215 220  
 His Gly Phe Phe Gln Gln Leu Gln Ser Met Gly His Leu Ala Asp His  
 225 230 235 240  
 Ser Met Ala Gln Thr Leu Gln Ala Ser Leu Glu Gly Leu Pro Pro Ser  
 245 250 255  
 Thr Ser Ser Gly Gln Pro Pro Leu Gln Asp Met Leu Cys Leu Gly Gly  
 260 265 270  
 Val Ala Val Ser Leu Ser His Ile Arg Asn  
 275 280

&lt;210&gt; 278

&lt;211&gt; 39

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 278

Met Ala Phe Gly Gln Glu Val Thr His Leu Thr Lys Thr Ser Trp Leu

1                      5                      10                      15  
 Ala Pro Leu Arg Phe Ile Lys Gly Leu Leu Gly Pro Trp Gly Trp Ile  
                     20                      25                      30

Leu Leu Ile Leu Asp Leu Glu  
                     35

<210> 279  
 <211> 39  
 <212> PRT  
 <213> Homo sapiens

<400> 279  
 Met Ala Phe Gly Gln Glu Val Thr His Leu Thr Lys Thr Ser Trp Leu  
   1                      5                      10                      15

Ala Pro Leu Arg Phe Ile Lys Gly Leu Leu Gly Pro Trp Gly Trp Ile  
                     20                      25                      30

Leu Leu Ile Leu Asp Leu Glu  
                     35

<210> 280  
 <211> 107  
 <212> PRT  
 <213> Homo sapiens

<400> 280  
 Gly Leu Asp Val Gln Pro Val Ala Gln Gly Ser Lys Leu Thr Gln Glu  
   1                      5                      10                      15

Val Arg Glu Gly Cys Leu Ala Val Ala Gly Ala Asn Gly Phe Arg Gly  
                     20                      25                      30

Gly Tyr Asp Gly Tyr Arg Pro Ser Phe Ser Asn Thr Pro Asn Ser Gly  
                     35                      40                      45

Tyr Thr Gln Ser Gln Phe Ser Ala Pro Arg Asp Tyr Ser Gly Tyr Gln  
                     50                      55                      60

Arg Asp Gly Tyr Gln Gln Asn Phe Lys Arg Gly Ser Gly Gln Ser Gly  
   65                      70                      75                      80

Pro Arg Gly Ala Pro Arg Gly Arg Gly Gly Pro Pro Arg Pro Asn Arg  
                     85                      90                      95

Gly Met Pro Gln Met Asn Thr Gln Gln Val Asn  
                     100                      105

<210> 281  
 <211> 77  
 <212> PRT  
 <213> Homo sapiens

&lt;400&gt; 281

Met Gly Thr His Pro Lys Tyr Leu Glu Met Met Glu Leu Asp Ile Gly  
 1 5 10 15

Asp Ala Thr Gln Val Tyr Val Ala Phe Leu Val Tyr Leu Asp Leu Met  
 20 25 30

Glu Ser Lys Ser Trp His Glu Val Asn Cys Val Gly Leu Pro Glu Leu  
 35 40 45

Gln Leu Ile Cys Leu Val Gly Thr Glu Ile Glu Gly Glu Gly Leu Gln  
 50 55 60

Thr Val Val Pro Asn Pro His His Cys Phe Pro Gln Pro  
 65 70 75

&lt;210&gt; 282

&lt;211&gt; 49

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 282

Met Gly Gly Thr Cys Val Leu Leu Leu Ser Ser His Thr Gln Ser Cys  
 1 5 10 15

Leu Phe Val Ser Cys Cys His Cys Gln Leu Ile Val Glu Thr Ala Ile  
 20 25 30

Ser Phe Ser Tyr Ser Ala Leu Pro Ser Ala Phe Trp Pro Leu Gln Leu  
 35 40 45

Pro

&lt;210&gt; 283

&lt;211&gt; 50

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (43)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (50)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 283

Met Asn Phe Leu Val Phe Leu Ser Leu Ser Ser Ser Leu Val Ser Ala  
 1 5 10 15

Ala Gly Pro Arg Phe Pro Ser Arg Glu Glu Arg Gly Val Gly Gly Val  
 20 25 30

Val Leu Ile Lys Ser Glu Asp Met Thr Leu Xaa Glu Arg Ser Lys Gly  
                   35                                  40                                  45

Ser Xaa  
           50

<210> 284

<211> 240

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (67)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 284

Gly Glu Gly Asp Asp Lys Glu Glu Ser Val Glu Lys Leu Asp Cys His  
   1                                  5                                  10                                  15

Tyr Ser Gly His His Pro Gln Pro Ala Ser Phe Cys Thr Phe Gly Ser  
                   20                                  25                                  30

Arg Gln Ile Gly Arg Gly Tyr Tyr Val Phe Asp Ser Arg Trp Asn Arg  
                   35                                  40                                  45

Leu Arg Cys Ala Leu Asn Leu Met Val Glu Lys His Leu Asn Ala Gln  
           50                                  55                                  60

Leu Trp Xaa Lys Ile Pro Pro Val Pro Ser Thr Thr Ser Pro Ile Ser  
   65                                  70                                  75                                  80

Thr Arg Ile Pro His Arg Thr Asn Ser Val Pro Thr Ser Gln Cys Gly  
                   85                                  90                                  95

Val Ser Tyr Leu Ala Ala Ala Thr Val Ser Thr Ser Pro Val Leu Leu  
                   100                                  105                                  110

Ser Ser Thr Cys Ile Ser Pro Asn Ser Lys Ser Val Pro Ala His Gly  
           115                                  120                                  125

Thr Thr Leu Asn Ala Gln Pro Ala Ala Ser Gly Ala Met Asp Pro Val  
   130                                  135                                  140

Cys Ser Met Gln Ser Arg Gln Val Ser Ser Ser Ser Ser Ser Pro Ser  
   145                                  150                                  155                                  160

Thr Pro Ser Gly Leu Ser Ser Val Pro Ser Ser Pro Met Ser Arg Lys  
                   165                                  170                                  175

Pro Gln Lys Leu Lys Ser Ser Lys Ser Leu Arg Pro Lys Glu Ser Ser  
           180                                  185                                  190

Gly Asn Ser Thr Asn Cys Gln Asn Ala Ser Ser Ser Thr Ser Gly Gly  
   195                                  200                                  205

Ser Gly Lys Lys Arg Lys Asn Ser Ser Pro Leu Leu Val His Ser Ser

210	215	220
Ser Ser Ser Ser Ser Ser Ser Ser Ser Ser His Ser Met Gly Val Phe		
225	230	235 240

<210> 285  
 <211> 43  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (7)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 285															
Tyr	Ser	Met	Val	Tyr	Met	Xaa	His	Ile	Phe	Leu	Ile	Gln	Ser	Ile	Ile
1				5					10					15	

Asp	Gly	His	Leu	Gly	Trp	Phe	Gln	Val	Phe	Ala	Ile	Val	Asn	Ser	Ala
			20					25					30		

Thr	Val	Asn	Ile	Arg	Val	His	Val	Ser	Leu	Trp
		35				40				

<210> 286  
 <211> 56  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (3)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (4)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (14)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (21)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 286															
Phe	Ala	Xaa	Xaa	Asp	Gly	Phe	Gln	Leu	His	Pro	Cys	Pro	Xaa	Lys	Gly
1				5					10					15	

His Glu Leu Ile Xaa Phe Tyr Gly Cys Ile Val Phe His Gly Val Tyr  
                   20                  25                  30

Val Pro His Phe Leu Asn Leu Val Cys His Cys Trp Thr Phe Gly Leu  
                   35                  40                  45

Val Pro Ser Leu Cys Tyr Cys Glu  
                   50                  55

<210> 287

<211> 75

<212> PRT

<213> Homo sapiens

<400> 287

Met Ser Trp Leu Phe Pro Ala Thr Ile Leu Phe Glu Glu Lys Ile Cys  
           1                  5                  10                  15

Phe Ser Leu Phe Pro Arg Lys Leu Val Gly Gln His Gly His Tyr Ser  
                   20                  25                  30

Ser Cys Ala Val Thr Pro Ala Pro Arg Cys Leu Glu Leu Ser Val Leu  
                   35                  40                  45

Thr Phe Met His Asp Cys Lys Ala Ser Trp Ser Ile Phe Tyr Gly Ala  
           50                  55                  60

Ser Val Cys Phe Arg Pro Met Thr Phe Val Arg  
           65                  70                  75

<210> 288

<211> 75

<212> PRT

<213> Homo sapiens

<400> 288

Met Ser Trp Leu Phe Pro Ala Thr Ile Leu Phe Glu Glu Lys Ile Cys  
           1                  5                  10                  15

Phe Ser Leu Phe Pro Arg Lys Leu Val Gly Gln His Gly His Tyr Ser  
                   20                  25                  30

Ser Cys Ala Val Thr Pro Ala Pro Arg Cys Leu Glu Leu Ser Val Leu  
                   35                  40                  45

Thr Phe Met His Asp Cys Lys Ala Ser Trp Ser Ile Phe Tyr Gly Ala  
           50                  55                  60

Ser Val Cys Phe Arg Pro Met Thr Phe Val Arg  
           65                  70                  75

<210> 289

<211> 83



&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 289

Ile Val Leu Lys Tyr Ile Met Ala Gly Cys Pro Leu Phe Leu Gly Asn  
 1 5 10 15

Leu Trp Asp Val Thr Asp Arg Asp Ile Asp Arg Tyr Thr Glu Ala Leu  
 20 25 30

Leu Gln Gly Trp Leu Gly Ser Arg Pro Arg Ala Pro Leu Leu Tyr Tyr  
 35 40 45

Val Asn Gln Ala Arg Gln Ala Pro Arg Leu Lys Tyr Leu Ile Gly Ala  
 50 55 60

Ala Pro Ile Pro Met Ala Cys Leu Ser Leu Cys Gly Asn Pro Met Glu  
 65 70 75 80

Leu Ser Tyr

&lt;210&gt; 290

&lt;211&gt; 223

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (132)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 290

Ala Trp Tyr Leu Leu Arg Val Gln Val Leu Gln Leu Val Ala Ala Tyr  
 1 5 10 15

Leu Ser Leu Pro Ser Asn Asn Leu Ser His Ser Leu Trp Glu Gln Leu  
 20 25 30

Cys Ala Gln Gly Trp Gln Thr Pro Glu Ile Ala Leu Ile Asp Ser His  
 35 40 45

Lys Leu Leu Arg Ser Ile Ile Leu Leu Leu Met Gly Ser Asp Ile Leu  
 50 55 60

Ser Thr Gln Lys Ala Ala Val Glu Thr Ser Phe Leu Asp Tyr Gly Glu  
 65 70 75 80

Asn Leu Val Gln Lys Trp Gln Val Leu Ser Glu Val Leu Ser Cys Ser  
 85 90 95

Glu Lys Leu Val Cys His Leu Gly Arg Leu Gly Ser Val Ser Glu Ala  
 100 105 110

Lys Ala Phe Cys Leu Glu Ala Leu Lys Leu Thr Thr Lys Leu Gln Ile  
 115 120 125

Pro Arg Gln Xaa Ala Leu Phe Leu Val Leu Lys Gly Glu Leu Glu Leu

130	135	140
Ala Arg Asn Asp Ile Asp Leu Cys Gln Ser Asp Leu Gln Gln Val Leu		
145	150	155 160
Phe Leu Leu Glu Ser Cys Thr Glu Phe Gly Gly Val Thr Gln His Leu		
	165	170 175
Asp Ser Val Lys Lys Val His Leu Gln Lys Gly Lys Gln Gln Ala Gln		
	180	185 190
Val Pro Cys Pro Pro Gln Leu Pro Glu Glu Glu Leu Phe Leu Arg Gly		
	195	200 205
Pro Ala Leu Glu Leu Val Pro Leu Trp Pro Arg Ser Leu Ala Pro		
210	215	220

<210> 291  
 <211> 8  
 <212> PRT  
 <213> Homo sapiens

<400> 291  
 Ala Trp Phe Leu Val Lys Pro Glu  
 1 5

<210> 292  
 <211> 223  
 <212> PRT  
 <213> Homo sapiens

<400> 292  
 Ala Trp Tyr Leu Leu Arg Val Gln Val Leu Gln Leu Val Ala Ala Tyr  
 1 5 10 15

Leu Ser Leu Pro Ser Asn Asn Leu Ser His Ser Leu Trp Glu Gln Leu  
 20 25 30

Cys Ala Gln Gly Trp Gln Thr Pro Glu Ile Ala Leu Ile Asp Ser His  
 35 40 45

Lys Leu Leu Arg Ser Ile Ile Leu Leu Leu Met Gly Ser Asp Ile Leu  
 50 55 60

Ser Thr Gln Lys Ala Ala Val Glu Thr Ser Phe Leu Asp Tyr Gly Glu  
 65 70 75 80

Asn Leu Val Gln Lys Trp Gln Val Leu Ser Glu Val Leu Ser Cys Ser  
 85 90 95

Glu Lys Leu Val Cys His Leu Gly Arg Leu Gly Ser Val Ser Glu Ala  
 100 105 110

Lys Ala Phe Cys Leu Glu Ala Leu Lys Leu Thr Thr Lys Leu Gln Ile  
 115 120 125

Pro Arg Gln Cys Ala Leu Phe Leu Val Leu Lys Gly Glu Leu Glu Leu  
 130 135 140  
 Ala Arg Asn Asp Ile Asp Leu Cys Gln Ser Asp Leu Gln Gln Val Leu  
 145 150 155 160  
 Phe Leu Leu Glu Ser Cys Thr Glu Phe Gly Gly Val Thr Gln His Leu  
 165 170 175  
 Asp Ser Val Lys Lys Val His Leu Gln Lys Gly Lys Gln Gln Ala Gln  
 180 185 190  
 Val Pro Cys Pro Pro Gln Leu Pro Glu Glu Glu Leu Phe Leu Arg Gly  
 195 200 205  
 Pro Ala Leu Glu Leu Val Pro Leu Trp Pro Arg Ser Leu Ala Pro  
 210 215 220

&lt;210&gt; 293

&lt;211&gt; 88

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (7)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (30)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (43)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (46)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 293

Ala Asp Pro Ser Pro Ser Xaa Trp Leu Gln Thr His Arg Gly Pro Arg  
 1 5 10 15

Leu Leu Trp Pro His His Gln Gln Leu Leu Leu Ser Phe Xaa Glu Pro  
 20 25 30

Arg Lys Pro Leu Ile Leu Leu Leu Pro Val Xaa Ala Pro Xaa Ser Leu  
 35 40 45

Lys Pro His Ser Cys Ile Pro Phe Ser Leu Asp Ile Thr Pro Pro Thr  
 50 55 60

Pro Trp Leu Asn Phe Leu Pro Val Val Ala Trp Ser Phe Gly His Cys  
 65 70 75 80

Pro Gly Leu Phe Leu Ser Pro Ser  
85

<210> 294

<211> 80

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (61)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (69)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (75)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 294

Met	His	His	His	Thr	Arg	Leu	Val	Phe	Val	Phe	Leu	Val	Glu	Met	Gly
1					5				10					15	

Phe	His	His	Val	Gly	Gln	Ala	Gly	Leu	Glu	Leu	Leu	Thr	Ser	Ser	Asp
			20					25					30		

Leu	Pro	Ala	Leu	Ala	Ser	Gln	Ser	Ala	Gly	Ile	Thr	Gly	Val	Ser	His
		35					40						45		

Cys	Ala	Gln	Leu	Pro	Phe	Leu	Pro	Leu	Lys	Ser	Lys	Xaa	Gly	Trp	Glu
	50					55					60				

Leu	Ser	Pro	Trp	Xaa	Phe	Met	Val	Ala	Lys	Xaa	Leu	Asn	Pro	Val	Ala
65					70					75					80

<210> 295

<211> 18

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 295

Met Val Ala Xaa Leu Leu Ile Leu Leu Asp Ser Gly Xaa Leu Leu  
1 5 10 15

Ala Gly

<210> 296

<211> 126

<212> PRT

<213> Homo sapiens

<400> 296

Ala Thr Thr Ser Val Pro Lys Tyr Val Phe Asn Leu Asn Phe Ile Leu  
1 5 10 15

Met Cys Leu Arg Asp Glu Ser Lys Tyr Met Leu Val Thr Ser His Ser  
20 25 30

Asn Val Glu Val Gly Arg Trp Leu Pro Gly Leu Pro Ser Pro Gly Arg  
35 40 45

Ile Cys Gly Glu Gln Ser Asp Val His Pro Ser Gly Leu Phe Ser Ile  
50 55 60

Asn Asp Ser Leu Leu Asp Leu Leu Leu Leu Gly Phe Arg Ser Lys Arg  
65 70 75 80

Gly Ile Val Val Glu Asn Ala Leu Leu Gly Glu Gly Glu Pro Glu Ile  
85 90 95

His Lys Arg Arg Leu Pro Cys Ser Phe Ala Tyr Leu Ala Ala Pro Arg  
100 105 110

Leu Gly Val Arg Ile Pro Gly Phe Pro Ser Leu Leu Cys His  
115 120 125

<210> 297

<211> 26

<212> PRT

<213> Homo sapiens

<400> 297

Met Pro Val Val Leu Phe Gln Leu Trp Leu Phe Ile Leu Lys Thr Asp  
1 5 10 15

Asn Ala Phe Ala Trp Leu Lys Ile Arg Arg  
20 25

<210> 298

<211> 136

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (67)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 298

Pro Ser Xaa Met Leu Leu Leu Trp Ala Ser Ser Leu Pro Thr Arg Cys  
1 5 10 15

Asp Cys Ser Phe Pro Val Thr Pro Leu Val Pro Leu Val His Val Ile  
20 25 30

Cys Val Trp Val Met Phe Pro Ser Ala Ala Thr Ala Ala Cys His Pro  
35 40 45

Gly Ala Gly Ala Phe Phe Ser Gln Gly Pro Ser Pro Phe Ser Arg Thr  
50 55 60

Trp Pro Xaa Leu Gly His Arg Glu Ile Pro Ala Glu Gly Ala Gly Glu  
65 70 75 80

Thr Val Ala Leu Gly Leu Gln Pro Lys Arg His Thr Leu Ala Val Gly  
85 90 95

Val His Gly Met Leu Ala Leu Ser Thr Val Thr Val Gly Gly Phe Gly  
100 105 110

Gly Phe Pro Trp Thr Ser Gly Pro Gly Cys Pro Pro Leu Ser Trp Thr  
115 120 125

Cys Phe Ile Phe Pro Ile Leu Thr  
130 135

<210> 299

<211> 19

<212> PRT

<213> Homo sapiens

<400> 299

Gln Ile Trp Pro Phe Leu Pro Pro Ser Gln Pro Ser Gly Pro Leu Gln  
1 5 10 15

Arg Ala Val

<210> 300

<211> 133

<212> PRT

<213> Homo sapiens

&lt;400&gt; 300

Met Leu Leu Leu Trp Ala Ser Ser Leu Pro Thr Arg Cys Asp Cys Ser  
 1 5 10 15  
 Phe Pro Val Thr Pro Leu Val Pro Leu Val His Val Ile Cys Val Trp  
 20 25 30  
 Val Met Phe Pro Ser Ala Ala Thr Ala Ala Cys His Pro Gly Ala Gly  
 35 40 45  
 Ala Phe Phe Ser Gln Gly Pro Ser Pro Phe Ser Arg Thr Trp Pro Leu  
 50 55 60  
 Leu Gly His Arg Glu Ile Pro Ala Glu Gly Ala Gly Glu Thr Val Ala  
 65 70 75 80  
 Leu Gly Leu Gln Pro Lys Arg His Thr Leu Ala Val Gly Val His Gly  
 85 90 95  
 Met Leu Ala Leu Ser Thr Val Thr Val Gly Gly Phe Gly Gly Phe Pro  
 100 105 110  
 Trp Thr Ser Gly Pro Gly Cys Pro Pro Leu Ser Trp Thr Cys Phe Ile  
 115 120 125  
 Phe Pro Ile Leu Thr  
 130

&lt;210&gt; 301

&lt;211&gt; 11

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 301

Ser Ser Leu Lys Asn Gln Val Ser Val Ser Gln  
 1 5 10

&lt;210&gt; 302

&lt;211&gt; 495

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 302

Met Lys His Leu Trp Phe Phe Leu Leu Leu Val Ala Ala Pro Arg Trp  
 1 5 10 15  
 Val Leu Ser Gln Val Glu Leu Gln Glu Ser Gly Pro Gly Leu Val Lys  
 20 25 30  
 Pro Ser Gln Thr Leu Ser Leu Thr Cys Ser Val Ser Gly Val Ser Met  
 35 40 45  
 Ser Arg Gly Asp Trp Ser Trp Ser Trp Val Arg Gln Val Pro Gly Lys  
 50 55 60

Gly Leu Glu Trp Ile Gly His Ile Asp Tyr Thr Gly Lys Thr Asp Tyr  
 65 70 75 80  
 Lys Ser Ser Leu Lys Asn Gln Val Ser Ile Ser Gln Asp Thr Ala Lys  
 85 90 95  
 Asn Gln Phe Phe Leu Arg Val Glu Ser Val Thr Ala Ala Asp Thr Ala  
 100 105 110  
 Val Tyr Phe Cys Ala Arg Leu Phe Glu Ser Ser Gly Tyr Gly Ala Trp  
 115 120 125  
 Leu Asp Pro Trp Gly Pro Gly Ile Leu Val Thr Val Ser Ser Ala Ser  
 130 135 140  
 Pro Thr Ser Pro Lys Val Phe Pro Leu Ser Leu Cys Ser Thr Gln Pro  
 145 150 155 160  
 Asp Gly Asn Val Val Ile Ala Cys Leu Val Gln Gly Phe Phe Pro Gln  
 165 170 175  
 Glu Pro Leu Ser Val Thr Trp Ser Glu Ser Gly Gln Gly Val Thr Ala  
 180 185 190  
 Arg Asn Phe Pro Pro Ser Gln Asp Ala Ser Gly Asp Leu Tyr Thr Thr  
 195 200 205  
 Ser Ser Gln Leu Thr Leu Pro Ala Thr Gln Cys Leu Ala Gly Lys Ser  
 210 215 220  
 Val Thr Cys His Val Lys His Tyr Thr Asn Pro Ser Gln Asp Val Thr  
 225 230 235 240  
 Val Pro Cys Pro Val Pro Ser Thr Pro Pro Thr Pro Ser Pro Ser Thr  
 245 250 255  
 Pro Pro Thr Pro Ser Pro Ser Cys Cys His Pro Arg Leu Ser Leu His  
 260 265 270  
 Arg Pro Ala Leu Glu Asp Leu Leu Leu Gly Ser Glu Ala Asn Leu Thr  
 275 280 285  
 Cys Thr Leu Thr Gly Leu Arg Asp Ala Ser Gly Val Thr Phe Thr Trp  
 290 295 300  
 Thr Pro Ser Ser Gly Lys Ser Ala Val Gln Gly Pro Pro Asp Arg Asp  
 305 310 315 320  
 Leu Cys Gly Cys Tyr Ser Val Ser Ser Val Leu Pro Gly Cys Ala Glu  
 325 330 335  
 Pro Trp Asn His Gly Lys Thr Phe Thr Cys Thr Ala Ala Tyr Pro Glu  
 340 345 350  
 Ser Lys Thr Pro Leu Thr Ala Thr Leu Ser Lys Ser Gly Asn Thr Phe  
 355 360 365  
 Arg Pro Glu Val His Leu Leu Pro Pro Pro Ser Glu Glu Leu Ala Leu  
 370 375 380



Asn Glu Leu Val Thr Leu Thr Cys Leu Ala Arg Gly Phe Ser Pro Lys  
 385 390 395 400  
 Asp Val Leu Val Arg Trp Leu Gln Gly Ser Gln Glu Leu Pro Arg Glu  
 405 410 415  
 Lys Tyr Leu Thr Trp Ala Ser Arg Gln Glu Pro Ser Gln Gly Thr Thr  
 420 425 430  
 Thr Phe Ala Val Thr Ser Ile Leu Arg Val Ala Ala Glu Asp Trp Lys  
 435 440 445  
 Lys Gly Asp Thr Phe Ser Cys Met Val Gly His Glu Ala Leu Pro Leu  
 450 455 460  
 Ala Phe Thr Gln Lys Thr Ile Asp Arg Leu Ala Gly Lys Pro Thr His  
 465 470 475 480  
 Val Asn Val Ser Val Val Met Ala Glu Val Asp Gly Thr Cys Tyr  
 485 490 495

&lt;210&gt; 303

&lt;211&gt; 90

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (8)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 303

Pro Tyr Glu Cys Lys Glu Cys Xaa Lys Ala Phe Arg Val His Val His  
 1 5 10 15

Leu Thr Gln His Arg Lys Ile His Thr Asp Val Lys Pro Tyr Glu Cys  
 20 25 30

Lys Glu Cys Gly Lys Thr Phe Ser Arg Ala Ser Tyr Leu Val Gln His  
 35 40 45

Ser Arg Ile His Thr Gly Lys Lys Pro Tyr Glu Cys Lys Glu Cys Gly  
 50 55 60

Lys Ala Phe Ser Ser Gly Ser Tyr Leu Val Gln His Gln Arg Ile His  
 65 70 75 80

Thr Gly Glu Arg Pro Tyr Trp Leu Thr Tyr  
 85 90

&lt;210&gt; 304

&lt;211&gt; 93

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

<221> SITE  
 <222> (5)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <400> 304  
 Gln Arg Ile His Xaa Gly Glu Lys Pro Tyr Glu Cys Asn Lys Cys Gly  
   1                  5                  10                  15  
 Lys Ala Phe Thr Val Tyr Gly Gln Leu Ile Gly His Gln Ser Val His  
                   20                  25                  30  
 Thr Gly Glu Lys Pro Phe Glu Cys Lys Glu Cys Gly Lys Ala Phe Arg  
                   35                  40                  45  
 Leu Asn Ser Phe Leu Thr Glu His Gln Arg Val His Thr Gly Glu Lys  
                   50                  55                  60  
 Pro Phe Lys Cys Lys Lys Cys Gly Lys Thr Phe Arg Tyr Ser Ser Ala  
   65                  70                  75                  80  
 Leu Lys Val His Leu Arg Lys His Met Ser Val Ile Pro  
                   85                  90

<210> 305  
 <211> 9  
 <212> PRT  
 <213> Homo sapiens

<400> 305  
 Met Trp Val Cys Ser Ile Thr Asp Gln  
   1                  5

<210> 306  
 <211> 264  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (5)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (7)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (13)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (63)  
 <223> Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (88)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (170)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (171)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 306

Thr Trp Gly Lys Xaa Lys Xaa Pro Phe Ile Glu Ser Xaa Pro Gly Gly  
 1 5 10 15

Lys Ile Gly Trp Gly Lys Lys Gly Leu Phe Phe Leu Lys Val Asn Tyr  
 20 25 30

Trp Gly Lys Lys Ala Phe Asn Pro Arg Gly His Ser Lys Lys Val Thr  
 35 40 45

Phe His Gln Leu Gly Leu Lys Lys Asn Pro Phe Trp Gly Leu Xaa Lys  
 50 55 60

Glu Val Leu Gly Lys Ala Phe Ser Thr Phe Ser Tyr Leu Val Gln His  
 65 70 75 80

Gln Arg Ile His Thr Ser Glu Xaa Pro Tyr Glu Cys Lys Glu Cys Gly  
 85 90 95

Lys Ala Phe Ser Thr Ser Ser Pro Leu Ala Lys His Gln Arg Ile His  
 100 105 110

Thr Gly Glu Lys Pro Tyr Glu Cys Lys Glu Cys Gly Lys Ser Phe Thr  
 115 120 125

Val Tyr Gly Gln Leu Thr Arg His Gln Ser Ile His Thr Gly Glu Lys  
 130 135 140

Pro Phe Glu Cys Lys Glu Cys Gly Lys Ala Phe Arg Leu Ser Ser Phe  
 145 150 155 160

Leu His Ala His Gln Arg Ile His Ala Xaa Xaa Lys Pro Tyr Gly Cys  
 165 170 175

Lys Glu Cys Gly Lys Thr Phe Ser Arg Ala Ser Tyr Leu Val Gln His  
 180 185 190

Gly Arg Leu His Thr Gly Glu Lys Pro Cys Glu Cys Lys Glu Cys Gly  
 195 200 205

Lys Ala Phe Ser Thr Gly Ser Tyr Leu Val Gln His Gln Arg Ile His  
 210 215 220

Thr Gly Glu Lys Pro Tyr Glu Cys Lys Glu Cys Gly Lys Ala Phe Ile

225                      230                      235                      240  
Ser Arg His Gln Leu Thr Val His Gln Arg Val His Thr Gly Glu Lys  
                         245                      250                      255  
Pro Tyr Lys Cys Lys Glu Glu Gly  
                         260

<210> 307  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 307  
Met Trp Val Cys Ser Ile Thr Asp Gln  
1                      5

<210> 308  
<211> 10  
<212> PRT  
<213> Homo sapiens

<400> 308  
Leu Thr Tyr Leu Ala His Leu Leu Cys Phe  
1                      5                      10

<210> 309  
<211> 10  
<212> PRT  
<213> Homo sapiens

<400> 309  
Met Cys Ser Leu Ser Ser Glu His Leu Ala  
1                      5                      10

<210> 310  
<211> 465  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (16)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (27)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE

&lt;222&gt; (44)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 310

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Asn Arg Arg Asn Gly Ala Ser Gln Ile Thr Trp Cys Ser Gly Gln Xaa
 1           5           10           15

Lys Ser Ser Lys Trp Ala Arg Glu Ile Gly Xaa Tyr Gln Thr Gly Val
      20           25           30

Tyr Gln Pro Gly Trp Gly Pro Gln Arg His Ala Xaa Gly Glu Ile Ala
      35           40           45

Thr Arg Ala Ile Ser Met Leu Ala Ile Leu Thr Gly Asn Val Gly Ile
      50           55           60

Asn Gly Gly Asn Ser Gly Ala Arg Glu Gly Ser Tyr Ser Leu Pro Phe
      65           70           75           80

Val Arg Met Pro Thr Leu Glu Asn Pro Ile Gln Thr Ser Ile Ser Met
      85           90           95

Phe Met Trp Thr Asp Ala Ile Glu Arg Gly Pro Glu Met Thr Ala Leu
      100          105          110

Arg Asp Gly Val Arg Gly Lys Asp Lys Leu Asp Val Pro Ile Lys Met
      115          120          125

Ile Trp Asn Tyr Ala Gly Asn Cys Leu Ile Asn Gln His Ser Glu Ile
      130          135          140

Asn Arg Thr His Glu Ile Leu Gln Asp Asp Lys Lys Cys Glu Leu Ile
      145          150          155          160

Val Val Ile Asp Cys His Met Thr Ser Ser Ala Lys Tyr Ala Asp Ile
      165          170          175

Leu Leu Pro Asp Cys Thr Ala Ser Glu Gln Met Asp Phe Ala Leu Asp
      180          185          190

Ala Ser Cys Gly Asn Met Ser Tyr Val Ile Phe Asn Asp Gln Val Ile
      195          200          205

Lys Pro Arg Phe Glu Cys Lys Thr Ile Tyr Glu Met Thr Ser Glu Leu
      210          215          220

Ala Lys Arg Leu Gly Val Glu Gln Gln Phe Thr Glu Gly Arg Thr Gln
      225          230          235          240

Glu Glu Trp Met Arg His Leu Tyr Ala Gln Ser Arg Glu Ala Ile Pro
      245          250          255

Glu Leu Pro Thr Phe Glu Glu Phe Arg Lys Gln Gly Ile Phe Lys Lys
      260          265          270

Arg Asp Pro Gln Gly His His Val Ala Tyr Lys Ala Phe Arg Glu Asp
      275          280          285

Pro Gln Ala Asn Pro Leu Thr Thr Pro Ser Gly Lys Ile Glu Ile Tyr
      290          295          300

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Ser Gln Ala Leu Ala Asp Ile Ala Ala Thr Trp Glu Leu Pro Glu Gly  
 305 310 315 320  
 Asp Val Ile Asp Pro Leu Pro Ile Tyr Thr Pro Gly Phe Glu Ser Tyr  
 325 330 335  
 Gln Asp Pro Leu Asn Lys Gln Tyr Pro Leu Gln Leu Thr Gly Phe His  
 340 345 350  
 Tyr Lys Ser Arg Val His Ser Thr Tyr Gly Asn Val Asp Val Leu Lys  
 355 360 365  
 Ala Ala Cys Arg Gln Glu Met Trp Ile Asn Pro Leu Asp Ala Gln Lys  
 370 375 380  
 Arg Gly Ile His Asn Gly Asp Lys Val Arg Ile Phe Asn Asp Arg Gly  
 385 390 395 400  
 Glu Val His Ile Glu Ala Lys Val Thr Pro Arg Met Met Pro Gly Val  
 405 410 415  
 Val Ala Leu Gly Glu Gly Ala Trp Tyr Asp Pro Asp Ala Lys Arg Val  
 420 425 430  
 Asp Lys Gly Gly Cys Ile Asn Val Leu Thr Thr Gln Arg Pro Ser Pro  
 435 440 445  
 Leu Ala Lys Gly Asn Pro Ser His Thr Asn Leu Val Gln Val Glu Lys  
 450 455 460  
 Val  
 465

<210> 311  
 <211> 185  
 <212> PRT  
 <213> Homo sapiens

<400> 311  
 Met Ala Gln Ala Asn Ser Thr Leu Gly Ala Gly Gly Trp Val Gly Asn  
 1 5 10 15  
 Gly Val Tyr Val Ser Gly Val Gln Arg Glu Tyr Asp Ala Phe Ile Thr  
 20 25 30  
 Asn Gln Leu Arg Ala Ala Gln Thr Gln Ser Ser Gly Leu Thr Ala Arg  
 35 40 45  
 Tyr Glu Gln Met Ser Lys Ile Asp Asn Met Leu Ser Thr Ser Thr Ser  
 50 55 60  
 Ser Leu Ala Thr Gln Met Gln Asp Phe Phe Thr Ser Leu Gln Thr Leu  
 65 70 75 80  
 Val Ser Asn Ala Glu Asp Pro Ala Ala Arg Gln Ala Leu Ile Gly Lys  
 85 90 95

Ser Glu Gly Leu Val Asn Gln Phe Lys Thr Thr Asp Gln Tyr Leu Arg  
 100 105 110

Asp Gln Asp Lys Gln Val Asn Ile Ala Ile Gly Ala Ser Val Asp Gln  
 115 120 125

Ile Asn Asn Tyr Ala Lys Gln Ile Ala Ser Leu Asn Asp Gln Ile Ser  
 130 135 140

Arg Leu Thr Gly Val Gly Ala Gly Ala Ser Pro Asn Asn Leu Leu Asp  
 145 150 155 160

Gln Arg Asp Gln Leu Gly Glu Arg Ile Lys Pro Asp Cys Trp Cys Arg  
 165 170 175

Ser Gln Arg Ser Gly Trp Arg His Leu  
 180 185

<210> 312  
 <211> 56  
 <212> PRT  
 <213> Homo sapiens

<400> 312  
 Met Ser His Cys Ala Trp Pro Pro Leu Leu Ile Phe Ile Thr Arg Val  
 1 5 10 15

Gln Trp Ala Thr Ala Thr Lys Cys Gln Phe Thr Ala Lys Ser Gly Ile  
 20 25 30

Gly Leu Thr Gln Gly Cys Ser Ser Val Phe Val Lys Leu Gly Leu Phe  
 35 40 45

Leu Ile Cys Pro Tyr Asp Trp Glu  
 50 55

<210> 313  
 <211> 56  
 <212> PRT  
 <213> Homo sapiens

<400> 313  
 Met Ser His Cys Ala Trp Pro Pro Leu Leu Ile Phe Ile Thr Arg Val  
 1 5 10 15

Gln Trp Ala Thr Ala Thr Lys Cys Gln Phe Thr Ala Lys Ser Gly Ile  
 20 25 30

Gly Leu Thr Gln Gly Cys Ser Ser Val Phe Val Lys Leu Gly Leu Phe  
 35 40 45

Leu Ile Cys Pro Tyr Asp Trp Glu  
 50 55

<210> 314  
 <211> 42  
 <212> PRT  
 <213> Homo sapiens

<400> 314  
 Leu Pro Ala Arg Leu Leu Gln Arg Ser Pro Arg Arg Cys Arg Arg Arg  
 1 5 10 15  
 Arg Val Pro Ser Pro Ser Leu Ala His Val Gly Arg Arg Val Gln Pro  
 20 25 30  
 Cys Tyr Ser Arg Ala Pro Pro Leu Ser Ser  
 35 40

<210> 315  
 <211> 146  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (7)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 315  
 Met Ala Ala Leu Leu Leu Xaa Pro Leu Leu Leu Leu Pro Leu Leu  
 1 5 10 15  
 Leu Leu Lys Leu His Leu Trp Pro Gln Leu Arg Trp Leu Pro Ala Ala  
 20 25 30  
 Thr Ala Ala Arg Gly Ala Leu Glu Lys Ala Ser Gly Gln Arg Arg Glu  
 35 40 45  
 Pro Glu Met Gln Arg Pro Glu Ala Ala Arg Ser Leu Pro Glu Gly Thr  
 50 55 60  
 Val Pro Pro Glu Val Glu Glu Pro Pro Pro Leu Cys His Leu Glu Gln  
 65 70 75 80  
 Leu Trp Arg Cys Ser Ser Pro Leu Ala Gln Ser Phe Cys Gly Ser Gly  
 85 90 95  
 Ser Gly Trp Pro Arg Pro Ala Cys Ala Leu Pro Leu Cys Pro Pro Pro  
 100 105 110  
 Cys Ala Gly Ala Pro Cys Cys Thr Ala Ser Ala Ala Ala Arg Ala  
 115 120 125  
 Arg Trp Cys Trp Arg Gln Ser Phe Trp Ser Pro Trp Ser Arg Thr Cys  
 130 135 140  
 Pro Pro  
 145



<210> 316  
 <211> 174  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (151)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (161)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (164)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 316  
 Met Ala Ala Leu Leu Leu Leu Pro Leu Leu Leu Leu Pro Leu Leu  
     1                    5                    10                    15  
 Leu Leu Lys Leu His Leu Trp Pro Gln Leu Arg Trp Leu Pro Ala Asp  
                     20                    25                    30  
 Leu Ala Phe Ala Val Arg Ala Leu Cys Cys Lys Arg Ala Leu Arg Ala  
                     35                    40                    45  
 Arg Ala Leu Ala Ala Ala Ala Asp Pro Glu Gly Pro Glu Gly Gly  
                     50                    55                    60  
 Cys Ser Leu Ala Trp Arg Leu Ala Glu Leu Ala Gln Gln Arg Ala Ala  
     65                    70                    75                    80  
 His Thr Phe Leu Ile His Gly Ser Arg Arg Phe Ser Tyr Ser Glu Ala  
                     85                    90                    95  
 Glu Arg Glu Ser Asn Arg Ala Ala Arg Ala Phe Leu Arg Ala Leu Gly  
                     100                    105                    110  
 Trp Asp Trp Gly Pro Asp Gly Gly Asp Ser Gly Glu Gly Ser Ala Gly  
                     115                    120                    125  
 Glu Gly Glu Arg Ala Ala Pro Gly Ala Gly Asp Ala Ser Gly Arg Lys  
     130                    135                    140  
 Arg Arg Gly Val Cys Arg Xaa Gly Thr Val Pro Pro Glu Gly Gly Arg  
     145                    150                    155                    160  
 Xaa Pro Pro Xaa Pro Phe Val Thr Leu Glu Ala Asn Cys Gly  
                     165                    170

<210> 317  
 <211> 119  
 <212> PRT  
 <213> Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (14)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (78)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 317

Gln Trp Gly Gly Gly Gln Leu Met Glu Leu Val Pro Leu Xaa Cys Ala  
 1 5 10 15

Phe Pro Gly Val Gly Ser Trp Gly Trp Glu Gln Gly Lys Ala Ala Ser  
 20 25 30

Ser Leu Gly Phe Leu Leu Cys Leu Pro Arg Val Ala Ala Asn Pro Val  
 35 40 45

Pro Ala Gly Gly Ala Gly Met Ala Ser Cys Pro Gly Leu Trp Gln Glu  
 50 55 60

Thr Leu Phe Pro Leu Pro Val Gly Leu Pro Arg Leu Ser Xaa Pro Phe  
 65 70 75 80

Ser His Lys Lys Ile Trp Gly Gln Ala Arg Trp Leu Thr Pro Val Ile  
 85 90 95

Pro Ala Leu Trp Glu Ala Glu Ala Gly Ser His Lys Val Arg Arg Ser  
 100 105 110

Gly Pro Ser Trp Leu Ile Arg  
 115

&lt;210&gt; 318

&lt;211&gt; 234

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 318

Met Ala Ala Leu Leu Leu Leu Pro Leu Leu Leu Leu Pro Leu Leu  
 1 5 10 15

Leu Leu Lys Leu His Leu Trp Pro Gln Leu Arg Trp Leu Pro Ala Asp  
 20 25 30

Leu Ala Phe Ala Val Arg Ala Leu Cys Cys Lys Arg Ala Leu Arg Ala  
 35 40 45

Arg Ala Leu Ala Ala Ala Ala Asp Pro Glu Gly Pro Glu Gly Gly  
 50 55 60

Cys Ser Leu Ala Trp Arg Leu Ala Glu Leu Ala Gln Gln Arg Ala Ala  
 65 70 75 80

His Thr Phe Leu Ile His Gly Ser Arg Arg Phe Ser Tyr Ser Glu Ala

85																90																95																						
Glu	Arg	Glu	Ser	Asn	Arg	Ala	Ala	Arg	Ala	Phe	Leu	Arg	Ala	Leu	Gly																																							
			100																	105																	110																	
Trp	Asp	Trp	Gly	Pro	Asp	Gly	Gly	Asp	Ser	Gly	Glu	Gly	Ser	Ala	Gly																																							
			115																	120																	125																	
Glu	Gly	Glu	Arg	Ala	Ala	Pro	Gly	Ala	Gly	Asp	Ala	Ala	Ala	Gly	Ser																																							
			130																	135																	140																	
Gly	Ala	Glu	Phe	Ala	Gly	Gly	Asp	Gly	Ala	Ala	Arg	Gly	Gly	Gly	Ala																																							
			145																	150																	155																	
Ala	Ala	Leu	Cys	His	Leu	Glu	Gln	Leu	Trp	Arg	Cys	Ser	Ser	Pro	Leu																																							
							165																	170																	175													
Ala	Gln	Ser	Phe	Cys	Gly	Ser	Gly	Ser	Gly	Trp	Pro	Arg	Pro	Ala	Cys																																							
							180																	185																	190													
Ala	Leu	Pro	Leu	Cys	Pro	Pro	Pro	Cys	Ala	Gly	Ala	Pro	Cys	Cys	Thr																																							
			195																	200																	205																	
Ala	Ser	Ala	Ala	Ala	Ala	Arg	Ala	Arg	Trp	Cys	Trp	Arg	Gln	Ser	Phe																																							
			210																	215																	220																	
Trp	Ser	Pro	Trp	Ser	Arg	Thr	Cys	Pro	Pro																																													
			225																	230																																		

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<210> 319
<211> 683
<212> PRT
<213> Homo sapiens
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<400> 319
Met Ala Ala Leu Leu Leu Leu Pro Leu Leu Leu Leu Leu Pro Leu Leu
  1                      5                      10                      15

Leu Leu Lys Leu His Leu Trp Pro Gln Leu Arg Trp Leu Pro Ala Asp
  20                      25                      30

Leu Ala Phe Ala Val Arg Ala Leu Cys Cys Lys Arg Ala Leu Arg Ala
  35                      40                      45

Arg Ala Leu Ala Ala Ala Ala Ala Asp Pro Glu Gly Pro Glu Gly Gly
  50                      55                      60

Cys Ser Leu Ala Trp Arg Leu Ala Glu Leu Ala Gln Gln Arg Ala Ala
  65                      70                      75                      80

His Thr Phe Leu Ile His Gly Ser Arg Arg Phe Ser Tyr Ser Glu Ala
  85                      90                      95

Glu Arg Glu Ser Asn Arg Ala Ala Arg Ala Phe Leu Arg Ala Leu Gly
  100                      105                      110

Trp Asp Trp Gly Pro Asp Gly Gly Asp Ser Gly Glu Gly Ser Ala Gly
  115                      120                      125

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Glu Gly Glu Arg Ala Ala Pro Gly Ala Gly Asp Ala Ala Ala Gly Ser  
 130 135 140  
 Gly Ala Glu Phe Ala Gly Gly Asp Gly Ala Ala Arg Gly Gly Gly Ala  
 145 150 155 160  
 Ala Ala Pro Leu Ser Pro Gly Ala Thr Val Ala Leu Leu Leu Pro Ala  
 165 170 175  
 Gly Pro Glu Phe Leu Trp Leu Trp Phe Gly Leu Ala Lys Ala Gly Leu  
 180 185 190  
 Arg Thr Ala Phe Val Pro Thr Ala Leu Arg Arg Gly Pro Leu Leu His  
 195 200 205  
 Cys Leu Arg Ser Cys Gly Ala Arg Ala Leu Val Leu Ala Pro Glu Phe  
 210 215 220  
 Leu Glu Ser Leu Glu Pro Asp Leu Pro Ala Leu Arg Ala Met Gly Leu  
 225 230 235 240  
 His Leu Trp Ala Ala Gly Pro Gly Thr His Pro Ala Gly Ile Ser Asp  
 245 250 255  
 Leu Leu Ala Glu Val Ser Ala Glu Val Asp Gly Pro Val Pro Gly Tyr  
 260 265 270  
 Leu Ser Ser Pro Gln Ser Ile Thr Asp Thr Cys Leu Tyr Ile Phe Thr  
 275 280 285  
 Ser Gly Thr Thr Gly Leu Pro Lys Ala Ala Arg Ile Ser His Leu Lys  
 290 295 300  
 Ile Leu Gln Cys Gln Gly Phe Tyr Gln Leu Cys Gly Val His Gln Glu  
 305 310 315 320  
 Asp Val Ile Tyr Leu Ala Leu Pro Leu Tyr His Met Ser Gly Ser Leu  
 325 330 335  
 Leu Gly Ile Val Gly Cys Met Gly Ile Gly Ala Thr Val Val Leu Lys  
 340 345 350  
 Ser Lys Phe Ser Ala Gly Gln Phe Trp Glu Asp Cys Gln Gln His Arg  
 355 360 365  
 Val Thr Val Phe Gln Tyr Ile Gly Glu Leu Cys Arg Tyr Leu Val Asn  
 370 375 380  
 Gln Pro Pro Ser Lys Ala Glu Arg Gly His Lys Val Arg Leu Ala Val  
 385 390 395 400  
 Gly Ser Gly Leu Arg Pro Asp Thr Trp Glu Arg Phe Val Arg Arg Phe  
 405 410 415  
 Gly Pro Leu Gln Val Leu Glu Thr Tyr Gly Leu Thr Glu Gly Asn Val  
 420 425 430  
 Ala Thr Ile Asn Tyr Thr Gly Gln Arg Gly Ala Val Gly Arg Ala Ser  
 435 440 445

Trp Leu Tyr Lys His Ile Phe Pro Phe Ser Leu Ile Arg Tyr Asp Val  
 450 455 460  
 Thr Thr Gly Glu Pro Ile Arg Asp Pro Gln Gly His Cys Met Ala Thr  
 465 470 475 480  
 Ser Pro Gly Glu Pro Gly Leu Leu Val Ala Pro Val Ser Gln Gln Ser  
 485 490 495  
 Pro Phe Leu Gly Tyr Ala Gly Gly Pro Glu Leu Ala Gln Gly Lys Leu  
 500 505 510  
 Leu Lys Asp Val Phe Arg Pro Gly Asp Val Phe Phe Asn Thr Gly Asp  
 515 520 525  
 Leu Leu Val Cys Asp Asp Gln Gly Phe Leu Arg Phe His Asp Arg Thr  
 530 535 540  
 Gly Asp Thr Phe Arg Trp Lys Gly Glu Asn Val Ala Thr Thr Glu Val  
 545 550 555 560  
 Ala Glu Val Phe Glu Ala Leu Asp Phe Leu Gln Glu Val Asn Val Tyr  
 565 570 575  
 Gly Val Thr Val Pro Gly His Glu Gly Arg Ala Gly Met Ala Ala Leu  
 580 585 590  
 Val Leu Arg Pro Pro His Ala Leu Asp Leu Met Gln Leu Tyr Thr His  
 595 600 605  
 Val Ser Glu Asn Leu Pro Pro Tyr Ala Arg Pro Arg Phe Leu Arg Leu  
 610 615 620  
 Gln Glu Ser Leu Ala Thr Thr Glu Thr Phe Lys Gln Gln Lys Val Arg  
 625 630 635 640  
 Met Ala Asn Glu Gly Phe Asp Pro Ser Thr Leu Ser Asp Pro Leu Tyr  
 645 650 655  
 Val Leu Asp Gln Ala Val Gly Ala Tyr Leu Pro Leu Thr Thr Ala Arg  
 660 665 670  
 Tyr Ser Ala Leu Leu Ala Gly Asn Leu Arg Ile  
 675 680

&lt;210&gt; 320

&lt;211&gt; 162

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (157)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 320

Met Gly Pro Arg Phe Thr Met Leu Leu Ala Met Trp Leu Val Cys Gly

[illegible]

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<210> 321
<211> 509
<212> PRT
<213> Homo sapiens
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<400> 321
Met Thr Trp Arg Met Gly Pro Arg Phe Thr Met Leu Leu Ala Met Trp
  1                      5                      10                      15

Leu Val Cys Gly Ser Glu Pro His Pro His Ala Thr Ile Arg Gly Ser
                20                      25                      30

His Gly Gly Arg Lys Val Pro Leu Val Ser Pro Asp Ser Ser Arg Pro
      35                      40                      45

Ala Arg Phe Leu Arg His Thr Gly Arg Ser Arg Gly Ile Glu Arg Ser
      50                      55                      60

Thr Leu Glu Glu Pro Asn Leu Gln Pro Leu Gln Arg Arg Arg Ser Val
  65                      70                      75                      80

Pro Val Leu Arg Leu Ala Arg Pro Thr Glu Pro Pro Ala Arg Ser Asp
                85                      90                      95

Ile Asn Gly Ala Ala Val Arg Pro Glu Gln Arg Pro Ala Ala Arg Gly
      100                      105                      110

```

Ser Pro Arg Glu Met Ile Arg Asp Glu Gly Ser Ser Ala Arg Ser Arg  
 115 120 125  
 Met Leu Arg Phe Pro Ser Gly Ser Ser Ser Pro Asn Ile Leu Ala Ser  
 130 135 140  
 Phe Ala Gly Lys Asn Arg Val Trp Val Ile Ser Ala Pro His Ala Ser  
 145 150 155 160  
 Glu Gly Tyr Tyr Arg Leu Met Met Ser Leu Leu Lys Asp Asp Val Tyr  
 165 170 175  
 Cys Glu Leu Ala Glu Arg His Ile Gln Gln Ile Val Leu Phe His Gln  
 180 185 190  
 Ala Gly Glu Glu Gly Gly Lys Val Arg Arg Ile Thr Ser Glu Gly Gln  
 195 200 205  
 Ile Leu Glu Gln Pro Leu Asp Pro Ser Leu Ile Pro Lys Leu Met Ser  
 210 215 220  
 Phe Leu Lys Leu Glu Lys Gly Lys Phe Gly Met Val Leu Leu Lys Lys  
 225 230 235 240  
 Thr Leu Gln Val Glu Glu Arg Tyr Pro Tyr Pro Val Arg Leu Glu Ala  
 245 250 255  
 Met Tyr Glu Val Ile Asp Gln Gly Pro Ile Arg Arg Ile Glu Lys Ile  
 260 265 270  
 Arg Gln Lys Gly Phe Val Gln Lys Cys Lys Ala Ser Gly Val Glu Gly  
 275 280 285  
 Gln Val Val Ala Glu Gly Asn Asp Gly Gly Gly Gly Ala Gly Arg Pro  
 290 295 300  
 Ser Leu Gly Ser Glu Lys Lys Lys Glu Asp Pro Arg Arg Ala Gln Val  
 305 310 315 320  
 Pro Pro Thr Arg Glu Ser Arg Val Lys Val Leu Arg Lys Leu Ala Ala  
 325 330 335  
 Thr Ala Pro Ala Phe Pro Gln Pro Pro Ser Thr Pro Arg Ala Thr Thr  
 340 345 350  
 Leu Pro Pro Ala Pro Ala Thr Thr Val Thr Arg Ser Thr Ser Arg Ala  
 355 360 365  
 Val Thr Val Ala Ala Arg Pro Met Thr Thr Thr Ala Phe Pro Thr Thr  
 370 375 380  
 Gln Arg Pro Trp Thr Pro Ser Pro Ser His Arg Pro Pro Thr Thr Thr  
 385 390 395 400  
 Glu Val Ile Thr Ala Arg Arg Pro Ser Val Ser Glu Asn Leu Tyr Pro  
 405 410 415  
 Pro Ser Arg Lys Asp Gln His Arg Glu Arg Pro Gln Thr Thr Arg Arg  
 420 425 430

Pro Ser Lys Ala Thr Ser Leu Glu Ser Phe Thr Asn Ala Pro Pro Thr  
                   435                  440                  445

Thr Ile Ser Glu Pro Ser Thr Arg Ala Ala Gly Pro Gly Arg Phe Arg  
           450                  455                  460

Asp Asn Arg Met Asp Arg Arg Glu His Gly His Arg Asp Pro Asn Val  
 465                  470                  475                  480

Val Pro Gly Pro Pro Lys Pro Ala Lys Glu Lys Pro Pro Lys Lys Lys  
                   485                  490                  495

Ala Gln Asp Lys Ile Leu Ser Asn Glu Tyr Glu Glu Val  
                   500                  505

&lt;210&gt; 322

&lt;211&gt; 68

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (5)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 322

Pro Pro His Leu Xaa Ser Phe Glu Phe Leu Lys Asn Val Gln Leu Arg  
   1                  5                  10                  15

Pro Asp Thr Val Ala His Thr Cys Asp Pro Gly Thr Leu Gly Gly Arg  
                   20                  25                  30

Gly Trp Trp Ile Thr Gly Ser Gly Asp Arg Asp Ile Leu Ala Asn Thr  
           35                  40                  45

Val Lys Arg Arg Leu Tyr Arg Lys Cys Arg Arg Leu Ala Gly His Gly  
   50                  55                  60

Gly Gly Arg Leu  
   65

&lt;210&gt; 323

&lt;211&gt; 58

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 323

Met Pro Asn Gln Phe Trp Lys Leu His Ile Leu Leu Phe Leu Leu Phe  
   1                  5                  10                  15

Phe Leu Phe Pro Leu Val Gln Leu Cys Ile Phe Ile Leu Ile Ser Asn  
                   20                  25                  30

Lys Glu Lys Lys Asn Val Cys Thr Leu Arg Lys Thr Tyr Ile Val Arg  
           35                  40                  45



His Phe Leu Trp Leu Arg Ser Phe Gln Val  
 50 55

<210> 324

<211> 58

<212> PRT

<213> Homo sapiens

<400> 324

Met Gln Val Phe Ser Ala Leu Leu Tyr Ser Leu Met His Phe Tyr Leu  
 1 5 10 15

Pro Ser Phe Thr Leu Glu Met Tyr Leu Asn Thr Leu Leu Ser His Asp  
 20 25 30

Leu Leu Ser Phe Phe His Cys Ser Gly Leu Val Phe Phe Val Tyr Phe  
 35 40 45

Lys Ser Val Thr Gly Leu Phe Ser Gly Val  
 50 55

<210> 325

<211> 1

<212> PRT

<213> Homo sapiens

<400> 325

Ile

1

<210> 326

<211> 7

<212> PRT

<213> Homo sapiens

<400> 326

Ile Phe Thr Cys Val Leu Tyr  
 1 5

<210> 327

<211> 41

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 327

Gln Thr Val Ser Ala Phe Leu Pro Pro Leu Phe Tyr Val Thr Phe Xaa

Leu Leu Pro Glu Asn Lys Ser Cys Val  
35 40

<400> 328  
Met Gln Val Phe Ser Ala Leu Leu Tyr Ser Leu Met His Phe Tyr Leu  
1 5 10 15

Leu Leu Ser Phe Phe His Cys Ser Gly Leu Val Phe Phe Val Tyr Phe  
35 40 45

Lys Ser Val Thr Gly Leu Phe Ser Gly Val  
50 55

```
<210> 329
<211> 14
<212> PRT
<213> Homo sapiens
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<220>
<221> SITE
<222> (7)
<223> Xaa equals any of the naturally occurring L-amino acids
```

<400> 329  
Met Met Pro Ala Tyr Pro Xaa Leu Leu Ala Trp Ile Leu Phe  
1 5 10

```
<210> 330
<211> 32
<212> PRT
<213> Homo sapiens
```

<400> 330  
Ala Trp Ser His Leu Ser Ile Leu Leu Asn Tyr Lys Leu Gln Arg Gln  
1 5 10 15

Glu Trp His Leu Phe Thr Tyr Phe Glu Phe Val Cys Asn Cys Leu Asp  
20 25 30

<210> 331  
 <211> 188  
 <212> PRT  
 <213> Homo sapiens

<400> 331  
 Met Glu Pro Ser Leu Val His Ile Leu Val Trp Val Ser Val Pro Pro  
     1                    5                    10                    15  
 Leu Phe Leu Cys Leu Thr His Ser Arg Ser Ile Asn His Asn Gln Asp  
                     20                    25                    30  
 Gly Leu Asn Leu Thr Pro Leu Leu Gln Met Pro His Gln Leu Thr Asp  
                     35                    40                    45  
 Ala Ser Gly Val Ile Lys Ala Pro Ala Cys His Pro Thr Val Asn Thr  
                     50                    55                    60  
 Asn Pro His Lys Glu Asn Glu His Ala Phe Leu Phe Ala Gly Cys Cys  
     65                    70                    75                    80  
 Thr His Ser Leu Asn Arg Val Gly Thr Trp Val Pro Pro Leu Phe Lys  
                     85                    90                    95  
 Val Phe Arg Phe Leu Leu Arg Gly Thr Ser Ala Ile Ala Thr Phe Ser  
                     100                    105                    110  
 Gly His Phe Phe Ser Asp Glu Ala Phe Tyr Pro Gly Glu Pro Gly Arg  
                     115                    120                    125  
 Leu Gln Gly Asn Gly Val Pro Trp Gln Leu Thr Val Thr Gly Gln Gly  
     130                    135                    140  
 Phe Asp Tyr Asp Lys Glu Asp Lys Arg Arg Glu Ala Pro His Gly Leu  
     145                    150                    155                    160  
 Trp Leu Gln His Tyr Arg Ala Ala Arg Asp Pro Arg Ala Trp Val Ser  
                     165                    170                    175  
 Trp Trp Ser Thr Phe Cys Asp Pro Gly Glu Glu Pro  
                     180                    185

<210> 332  
 <211> 188  
 <212> PRT  
 <213> Homo sapiens

<400> 332  
 Met Glu Pro Ser Leu Val His Ile Leu Val Trp Val Ser Val Pro Pro  
     1                    5                    10                    15  
 Leu Phe Leu Cys Leu Thr His Ser Arg Ser Ile Asn His Asn Gln Asp  
                     20                    25                    30  
 Gly Leu Asn Leu Thr Pro Leu Leu Gln Met Pro His Gln Leu Thr Asp

35                      40                      45  
 Ala Ser Gly Val Ile Lys Ala Pro Ala Cys His Pro Thr Val Asn Thr  
     50                      55                      60  
 Asn Pro His Lys Glu Asn Glu His Ala Phe Leu Phe Ala Gly Cys Cys  
     65                      70                      75                      80  
 Thr His Ser Leu Asn Arg Val Gly Thr Trp Val Pro Pro Leu Phe Lys  
                     85                      90                      95  
 Val Phe Arg Phe Leu Leu Arg Gly Thr Ser Ala Ile Ala Thr Phe Ser  
                     100                      105                      110  
 Gly His Phe Phe Ser Asp Glu Ala Phe Tyr Pro Gly Glu Pro Gly Arg  
                     115                      120                      125  
 Leu Gln Gly Asn Gly Val Pro Trp Gln Leu Thr Val Thr Gly Gln Gly  
     130                      135                      140  
 Phe Asp Tyr Asp Lys Glu Asp Lys Arg Arg Glu Ala Pro His Gly Leu  
     145                      150                      155                      160  
 Trp Leu Gln His Tyr Arg Ala Ala Arg Asp Pro Arg Ala Trp Val Ser  
                     165                      170                      175  
 Trp Trp Ser Thr Phe Cys Asp Pro Gly Glu Glu Pro  
                     180                      185

<210> 333  
 <211> 44  
 <212> PRT  
 <213> Homo sapiens

<400> 333  
 Met Leu Cys Val Cys Val Leu Trp Met Phe Thr Val Pro Gly Ser Arg  
     1                      5                      10                      15  
 Lys Asp Val Gly Glu Ala Ala Pro Ala Ser Gly Thr Gly Gln Glu Cys  
                     20                      25                      30  
 Arg Met His Gly Ser Trp Ser Gly Arg Ser Leu Gly  
                     35                      40

<210> 334  
 <211> 44  
 <212> PRT  
 <213> Homo sapiens

<400> 334  
 Met Leu Cys Val Cys Val Leu Trp Met Phe Thr Val Pro Gly Ser Arg  
     1                      5                      10                      15  
 Lys Asp Val Gly Glu Ala Ala Pro Ala Ser Gly Thr Gly Gln Glu Cys  
                     20                      25                      30

Arg Met His Gly Ser Trp Ser Gly Arg Ser Leu Gly  
                   35                                  40

<210> 335

<211> 249

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (147)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (150)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (196)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (222)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 335

Met Val Cys Val Phe Met Cys Ile Val Gly Val Cys Val Ala Cys Cys  
   1                  5                                  10                                  15

Ala Cys Val Tyr Cys Gly Cys Leu Leu Ser Arg Ala Val Glu Arg Thr  
                   20                                  25                                  30

Ser Gly Lys Gln Pro Gln His Gln Gly Gln Ala Arg Ser Ala Glu Cys  
                   35                                  40                                  45

Met Glu Ala Gly Gln Val Gly Ala Trp Asp Glu Gly Ser Thr Glu Met  
   50                                  55                                  60

Gln Gly Cys Gln Gly Pro Trp Asn Gln Glu Pro Met Ile Lys Ala Thr  
   65                                  70                                  75                                  80

Val His Thr Ala Leu Glu Ala Lys Asp Ile Phe Ile Ser Gln Gly Leu  
                   85                                  90                                  95

Lys Ser Met Gly Gln Gly Trp Ala Pro Gly Gln Asp Trp Gly Tyr Arg  
                   100                                  105                                  110

Val Asp Gln Ser Pro Ser Leu Pro Pro Gly Ala Tyr Pro His Pro Phe  
                   115                                  120                                  125

Thr Ser Gln Val Ser Pro Pro Gln Pro Leu Gly Glu Leu Leu Leu Ile  
   130                                  135                                  140

Pro Gln Xaa Val Ala Xaa Val Thr Leu Leu Pro Glu Ala Ser Pro His  
   145                                  150                                  155                                  160

Pro Leu Lys His Pro Leu Pro Ala Ala His Leu Gln His Ser Gln Arg  
                           165                          170                          175

Ala Pro Trp Pro Val Ser Thr Gly Leu Ser Leu Leu Gly Gly Ala Gly  
                           180                          185                          190

Ala Glu Gln Xaa Pro Gly Leu Gly Val Pro Ala Pro Arg Ser Thr Pro  
                           195                          200                          205

Ser Pro Thr Ala Ser Leu Phe Asn Leu Arg Gln Ala Val Xaa Leu Leu  
                           210                          215                          220

Ser Leu Thr Phe Pro Leu Cys Lys Met Arg Glu Gly Thr Ala Pro Ser  
                           225                          230                          235                          240

Lys Pro Ser Phe Ser Leu Lys Pro Leu  
                           245

<210> 336  
 <211> 42  
 <212> PRT  
 <213> Homo sapiens

<400> 336  
 Met Lys Ile Val Thr Thr Leu Tyr Cys Leu Phe Val Phe Leu Leu Asn  
           1                          5                          10                          15

Cys Phe Gly Val Gly Gly Ser Cys Ile Phe Leu Ser Asn Arg Thr Pro  
                           20                          25                          30

Gly Phe Ser Trp Ala His Asp Cys Pro Gln  
                           35                          40

<210> 337  
 <211> 42  
 <212> PRT  
 <213> Homo sapiens

<400> 337  
 Met Lys Ile Val Thr Thr Leu Tyr Cys Leu Phe Val Phe Leu Leu Asn  
           1                          5                          10                          15

Cys Phe Gly Val Gly Gly Ser Cys Ile Phe Leu Ser Asn Arg Thr Pro  
                           20                          25                          30

Gly Phe Ser Trp Ala His Asp Cys Pro Gln  
                           35                          40

<210> 338  
 <211> 42  
 <212> PRT  
 <213> Homo sapiens

&lt;400&gt; 338

Met Lys Ile Val Thr Thr Leu Tyr Cys Leu Phe Val Phe Leu Leu Asn  
 1 5 10 15  
 Cys Phe Gly Val Gly Gly Ser Cys Ile Phe Leu Ser Asn Arg Thr Pro  
 20 25 30  
 Gly Phe Ser Trp Ala His Asp Cys Pro Gln  
 35 40

&lt;210&gt; 339

&lt;211&gt; 82

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 339

Leu Leu Ser Asp Val Cys Pro Ser Leu Thr Val Pro Cys Ser Ser His  
 1 5 10 15  
 Val Phe Thr Asp Cys Leu Leu Tyr Met Gln Ser Gln Arg Val Gly Pro  
 20 25 30  
 Gly Leu Glu Leu Ser Pro His Leu Pro Leu Leu Ala Pro Pro Ser Ser  
 35 40 45  
 Trp Ala Leu Ser Ser Asn Thr Val Ile Leu Ser Pro Thr Trp Leu Ile  
 50 55 60  
 Leu Ser Phe Leu Pro Ser Asn Gly His Leu Gln Lys Lys Lys Lys Lys  
 65 70 75 80  
 Thr Arg

&lt;210&gt; 340

&lt;211&gt; 265

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (112)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (113)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (193)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (222)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (238)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (258)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 340

Met	Asp	Leu	Leu	Gln	Phe	Leu	Ala	Phe	Leu	Phe	Val	Leu	Leu	Leu	Ser
1				5					10					15	

Gly	Met	Gly	Ala	Thr	Gly	Thr	Leu	Arg	Thr	Ser	Leu	Asp	Pro	Ser	Leu
			20					25					30		

Glu	Ile	Tyr	Lys	Lys	Met	Phe	Glu	Val	Lys	Arg	Arg	Glu	Gln	Leu	Leu
		35					40					45			

Ala	Leu	Lys	Asn	Leu	Ala	Gln	Leu	Asn	Asp	Ile	His	Gln	Gln	Tyr	Lys
	50					55					60				

Ile	Leu	Asp	Val	Met	Leu	Lys	Gly	Leu	Phe	Lys	Val	Leu	Glu	Asp	Ser
65					70					75					80

Arg	Thr	Val	Leu	Thr	Ala	Ala	Asp	Val	Leu	Pro	Asp	Gly	Pro	Phe	Pro
				85					90					95	

Gln	Asp	Glu	Lys	Leu	Lys	Asp	Ala	Phe	Ser	His	Val	Val	Glu	Asn	Xaa
			100					105						110	

Xaa	Phe	Phe	Gly	Asp	Val	Val	Leu	Arg	Phe	Pro	Lys	Ile	Val	His	Tyr
	115						120					125			

Tyr	Phe	Asp	His	Asn	Ser	Asn	Trp	Asn	Leu	Leu	Ile	Arg	Trp	Gly	Ile
130						135					140				

Ser	Phe	Cys	Asn	Gln	Thr	Gly	Val	Phe	Asn	Gln	Gly	Pro	His	Ser	Pro
145					150					155					160

Ile	Leu	Ser	Leu	Met	Ala	Gln	Glu	Leu	Gly	Ile	Ser	Glu	Lys	Asp	Ser
				165					170					175	

Asn	Phe	Gln	Asn	Pro	Phe	Lys	Ile	Asp	Arg	Thr	Glu	Phe	Ile	Pro	Ser
		180						185					190		

Xaa	Asp	Pro	Phe	Gln	Lys	Ala	Leu	Arg	Glu	Glu	Glu	Lys	Arg	Arg	Lys
		195					200					205			

Lys	Glu	Glu	Lys	Arg	Lys	Glu	Ile	Arg	Lys	Gly	Pro	Lys	Xaa	Leu	Pro
	210					215					220				

Asp	Ser	His	Leu	Glu	Leu	Leu	Gly	Pro	Trp	Ser	Ser	Phe	Xaa	Val	Gln
225					230					235					240

Gly	Ala	Thr	Arg	Arg	Gln	Val	Arg	Glu	Gly	Arg	Arg	Gly	Trp	Ser	Phe
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----



245

250

255

Gly Xaa Trp Leu Glu Glu Ala Pro Phe  
 260 265

&lt;210&gt; 341

&lt;211&gt; 229

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 341

Met Asp Leu Leu Gln Phe Leu Ala Phe Leu Phe Val Leu Leu Leu Ser  
 1 5 10 15

Gly Met Gly Ala Thr Gly Thr Leu Arg Thr Ser Leu Asp Pro Ser Leu  
 20 25 30

Glu Ile Tyr Lys Lys Met Phe Glu Val Lys Arg Arg Glu Gln Leu Leu  
 35 40 45

Ala Leu Lys Asn Leu Ala Gln Leu Asn Asp Ile His Gln Gln Tyr Lys  
 50 55 60

Ile Leu Asp Val Met Leu Lys Gly Leu Phe Lys Val Leu Glu Asp Ser  
 65 70 75 80

Arg Thr Val Leu Thr Ala Ala Asp Val Leu Pro Asp Gly Pro Cys Pro  
 85 90 95

Gln Asp Glu Lys Leu Lys Asp Ala Phe Ser His Val Val Glu Asn Thr  
 100 105 110

Ala Phe Phe Gly Asp Val Val Leu Arg Phe Pro Arg Ile Val His Tyr  
 115 120 125

Tyr Phe Asp His Asn Ser Asn Trp Asn Leu Leu Ile Arg Trp Gly Ile  
 130 135 140

Ser Phe Cys Asn Gln Thr Gly Val Phe Asn Gln Gly Pro His Ser Pro  
 145 150 155 160

Ile Leu Ser Leu Met Ala Gln Glu Leu Gly Ile Ser Glu Lys Asp Ser  
 165 170 175

Asn Phe Gln Asn Pro Phe Lys Ile Asp Arg Thr Glu Phe Ile Pro Ser  
 180 185 190

Thr Asp Pro Phe Gln Lys Ala Leu Arg Glu Glu Glu Lys Arg Arg Lys  
 195 200 205

Lys Glu Glu Lys Arg Lys Glu Ile Arg Lys Gly Pro Arg Ile Ser Arg  
 210 215 220

Ser Gln Ser Glu Leu  
 225

<210> 342  
 <211> 88  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (1)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (2)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (19)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 342  
 Xaa Xaa Glu Asp Arg Leu Pro Gly Pro Ile Leu Pro Arg Gly Phe Gln  
 1 5 10 15

Leu Trp Xaa Ser Leu Gly Gly Glu Phe Pro Arg Leu Gln Ile Arg Pro  
 20 25 30

Met Cys His Ala Pro Asn Cys Leu Ser Val Arg Pro Ser Val Arg Pro  
 35 40 45

Ser Val His Pro Ser Ile His Pro Ser Ile Pro Val Thr Ile Ser Thr  
 50 55 60

Pro Met Cys Gln Met Pro Tyr Ile Ser Asn Leu Met Gln Val Pro Pro  
 65 70 75 80

Pro Pro Cys Pro Leu Leu Ile Gln  
 85

<210> 343  
 <211> 162  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (138)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (152)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 343  
 Met Arg Pro Arg Gly Leu Pro Pro Leu Leu Val Val Leu Leu Gly Cys  
 1 5 10 15

Trp Ala Ser Val Ser Ala Gln Thr Asp Ala Thr Pro Ala Val Thr Thr  
                   20                                  25                                  30  
 Glu Gly Leu Asn Ser Thr Glu Ala Ala Leu Ala Thr Phe Gly Thr Phe  
                   35                                  40                                  45  
 Pro Ser Thr Arg Pro Pro Gly Thr Pro Arg Ala Pro Gly Pro Ser Ser  
                   50                                  55                                  60  
 Gly Pro Arg Pro Thr Pro Val Thr Asp Val Ala Val Leu Cys Val Cys  
                   65                                  70                                  75                                  80  
 Asp Leu Ser Pro Ala Gln Cys Asp Ile Asn Cys Cys Cys Asp Pro Asp  
                                   85                                  90                                  95  
 Cys Ser Ser Val Asp Phe Ser Val Phe Ser Ala Cys Ser Val Pro Val  
                   100                                  105                                  110  
 Val Thr Gly Asp Ser Gln Phe Cys Ser Gln Lys Ala Val Ile Tyr Ser  
                   115                                  120                                  125  
 Leu Asn Phe Thr Ala Asn Pro Pro Gln Xaa Val Phe Glu Leu Val Asp  
                   130                                  135                                  140  
 Gln Ile Asn Pro Ser Ile Phe Xaa Ile His Ile Thr Asn Cys Arg Cys  
                   145                                  150                                  155                                  160  
 Ser Val

&lt;210&gt; 344

&lt;211&gt; 274

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (56)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 344

Pro Phe Tyr Ser Ser Pro Glu Ile Leu Arg Val Pro Asp Ser Arg Lys  
           1                                  5                                  10                                  15  
 Lys Val Pro Ile Thr Val Gln Ser Ile Val Ile Gln Ser Leu Asn Lys  
                   20                                  25                                  30  
 Thr Leu Thr Arg Arg Glu Asp Thr Asp Val Leu Gln Pro Thr Leu Val  
                   35                                  40                                  45  
 Asn Ala Gly His Phe Ser Leu Xaa Val Asn Val Val Leu Glu Val Lys  
                   50                                  55                                  60  
 Tyr Ser Leu Thr Tyr Thr Asp Ala Gly Glu Val Thr Lys Ala Asp Leu  
                   65                                  70                                  75                                  80  
 Ser Phe Val Leu Gly Thr Val Ser Ser Val Val Val Pro Leu Gln Gln  
                                   85                                  90                                  95

Lys Phe Glu Ile His Phe Leu Gln Glu Asn Thr Gln Pro Val Pro Leu  
 100 105 110  
 Ser Gly Asn Pro Gly Tyr Val Val Gly Leu Pro Leu Ala Ala Gly Phe  
 115 120 125  
 Gln Pro His Lys Gly Gly Ala Leu Pro Cys Gln Leu Val Ala Gln Lys  
 130 135 140  
 Val Lys Ser Leu Leu Trp Gly Gln Gly Phe Pro Asp Tyr Val Ala Pro  
 145 150 155 160  
 Phe Gly Asn Ser Gln Ala Gln Asp Met Leu Asp Trp Val Pro Ile His  
 165 170 175  
 Phe Ile Thr Gln Ser Phe Asn Arg Lys Asp Ser Cys Gln Leu Pro Gly  
 180 185 190  
 Ala Leu Val Ile Glu Val Lys Trp Thr Lys Tyr Gly Ser Leu Leu Asn  
 195 200 205  
 Pro Gln Ala Lys Ile Val Asn Val Thr Ala Asn Leu Ile Ser Ser Ser  
 210 215 220  
 Phe Pro Glu Ala Asn Ser Gly Asn Glu Arg Thr Ile Leu Ile Ser Thr  
 225 230 235 240  
 Ala Val Thr Phe Val Asp Val Ser Ala Pro Ala Glu Ala Gly Phe Arg  
 245 250 255  
 Ala Pro Pro Ala Ile Asn Ala Arg Leu Pro Phe Asn Phe Phe Phe Pro  
 260 265 270  
 Phe Val

&lt;210&gt; 345

&lt;211&gt; 254

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (5)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (15)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (17)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (24)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 345

Thr	His	Leu	Phe	Xaa	Cys	Asn	Ser	Tyr	Tyr	Lys	Pro	Leu	Thr	Xaa	His
1				5					10					15	

Xaa	Pro	Phe	Ile	Ile	Gln	Lys	Xaa	Pro	Asp	Glu	Asn	Asn	Phe	Asp	Thr
			20				25						30		

Leu	Met	Lys	Thr	Ser	Asp	Gly	Phe	Thr	Leu	Asn	Ala	Glu	Ser	Tyr	Val
		35				40						45			

Ser	Phe	Thr	Thr	Lys	Leu	Asp	Ile	Pro	Thr	Ala	Ala	Lys	Tyr	Glu	Tyr
	50					55					60				

Gly	Val	Pro	Leu	Gln	Thr	Ser	Asp	Ser	Phe	Leu	Arg	Phe	Pro	Ser	Ser
65				70						75					80

Leu	Thr	Ser	Ser	Leu	Cys	Thr	Asp	Asn	Asn	Pro	Ala	Ala	Phe	Leu	Val
			85						90					95	

Asn	Gln	Ala	Val	Lys	Cys	Thr	Arg	Lys	Ile	Asn	Leu	Glu	Gln	Cys	Glu
		100						105					110		

Glu	Ile	Glu	Ala	Leu	Ser	Met	Ala	Phe	Tyr	Ser	Ser	Pro	Glu	Ile	Leu
	115					120						125			

Arg	Val	Pro	Asp	Ser	Arg	Lys	Lys	Val	Pro	Ile	Thr	Val	Gln	Ser	Ile
	130					135					140				

Val	Ile	Gln	Ser	Leu	Asn	Lys	Thr	Leu	Thr	Arg	Arg	Glu	Asp	Thr	Asp
145					150					155					160

Val	Leu	Gln	Pro	Thr	Leu	Val	Asn	Ala	Gly	His	Phe	Ser	Leu	Cys	Val
			165						170					175	

Asn	Val	Val	Leu	Glu	Asp	Ser	Cys	Gln	Leu	Pro	Gly	Ala	Leu	Val	Ile
		180						185					190		

Glu	Val	Lys	Trp	Thr	Lys	Tyr	Gly	Ser	Leu	Leu	Asn	Pro	Gln	Ala	Lys
	195						200					205			

Ile	Val	Asn	Val	Thr	Ala	Asn	Leu	Ile	Ser	Ser	Ser	Phe	Pro	Glu	Asn
	210					215					220				

Ala	Gln	Met	His	Gln	Phe	Leu	Asn	Ile	His	Val	Lys	Phe	Glu	Asn	Cys
225				230						235					240

Thr	Phe	Gly	Glu	Ile	Lys	Phe	Tyr	Ile	Gln	Leu	Ala	Lys	Lys
			245						250				

&lt;210&gt; 346

&lt;211&gt; 587

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 346

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Met Arg Pro Arg Gly Leu Pro Pro Leu Leu Val Val Leu Leu Gly Cys
 1           5           10           15

Trp Ala Ser Val Ser Ala Gln Thr Asp Ala Thr Pro Ala Val Thr Thr
      20           25           30

Glu Gly Leu Asn Ser Thr Glu Ala Ala Leu Ala Thr Phe Gly Thr Phe
      35           40           45

Pro Ser Thr Arg Pro Pro Gly Thr Pro Arg Ala Pro Gly Pro Ser Ser
 50           55           60

Gly Pro Arg Pro Thr Pro Val Thr Asp Val Ala Val Leu Cys Val Cys
 65           70           75           80

Asp Leu Ser Pro Ala Gln Cys Asp Ile Asn Cys Cys Cys Asp Pro Asp
      85           90           95

Cys Ser Ser Val Asp Phe Ser Val Phe Ser Ala Cys Ser Val Pro Val
      100          105          110

Val Thr Gly Asp Ser Gln Phe Cys Ser Gln Lys Ala Val Ile Tyr Ser
      115          120          125

Leu Asn Phe Thr Ala Asn Pro Pro Gln Arg Val Phe Glu Leu Val Asp
 130          135          140

Gln Ile Asn Pro Ser Ile Phe Cys Ile His Ile Thr Asn Tyr Lys Pro
 145          150          155          160

Ala Leu Ser Phe Ile Asn Pro Glu Val Pro Asp Glu Asn Asn Phe Asp
      165          170          175

Thr Leu Met Lys Thr Ser Asp Gly Phe Thr Leu Asn Ala Glu Ser Tyr
      180          185          190

Val Ser Phe Thr Thr Lys Leu Asp Ile Pro Thr Ala Ala Lys Tyr Glu
 195          200          205

Tyr Gly Val Pro Leu Gln Thr Ser Asp Ser Phe Leu Arg Phe Pro Ser
 210          215          220

Ser Leu Thr Ser Ser Leu Cys Thr Asp Asn Asn Pro Ala Ala Phe Leu
 225          230          235          240

Val Asn Gln Ala Val Lys Cys Thr Arg Lys Ile Asn Leu Glu Gln Cys
      245          250          255

Glu Glu Ile Glu Ala Leu Ser Met Ala Phe Tyr Ser Ser Pro Glu Ile
      260          265          270

Leu Arg Val Pro Asp Ser Arg Lys Lys Val Pro Ile Thr Val Gln Ser
 275          280          285

Ile Val Ile Gln Ser Leu Asn Lys Thr Leu Thr Arg Arg Glu Asp Thr
 290          295          300

Asp Val Leu Gln Pro Thr Leu Val Asn Ala Gly His Phe Ser Leu Cys
 305          310          315          320

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Val Asn Val Val Leu Glu Val Lys Tyr Ser Leu Thr Tyr Thr Asp Ala  
 325 330 335  
 Gly Glu Val Thr Lys Ala Asp Leu Ser Phe Val Leu Gly Thr Val Ser  
 340 345 350  
 Ser Val Val Val Pro Leu Gln Gln Lys Phe Glu Ile His Phe Leu Gln  
 355 360 365  
 Glu Asn Thr Gln Pro Val Pro Leu Ser Gly Asn Pro Gly Tyr Val Val  
 370 375 380  
 Gly Leu Pro Leu Ala Ala Gly Phe Gln Pro His Lys Gly Ser Gly Ile  
 385 390 395 400  
 Ile Gln Thr Thr Asn Arg Tyr Gly Gln Leu Thr Ile Leu His Ser Thr  
 405 410 415  
 Thr Glu Gln Asp Cys Leu Ala Leu Glu Gly Val Arg Thr Pro Val Leu  
 420 425 430  
 Phe Gly Tyr Thr Met Gln Ser Gly Cys Lys Leu Arg Leu Thr Gly Ala  
 435 440 445  
 Leu Pro Cys Gln Leu Val Ala Gln Lys Val Lys Ser Leu Leu Trp Gly  
 450 455 460  
 Gln Gly Phe Pro Asp Tyr Val Ala Pro Phe Gly Asn Ser Gln Ala Gln  
 465 470 475 480  
 Asp Met Leu Asp Trp Val Pro Ile His Phe Ile Thr Gln Ser Phe Asn  
 485 490 495  
 Arg Lys Asp Ser Cys Gln Leu Pro Gly Ala Leu Val Ile Glu Val Lys  
 500 505 510  
 Trp Thr Lys Tyr Gly Ser Leu Leu Asn Pro Gln Ala Lys Ile Val Asn  
 515 520 525  
 Val Thr Ala Asn Leu Ile Ser Ser Ser Phe Pro Glu Ala Asn Ser Gly  
 530 535 540  
 Asn Glu Arg Thr Ile Leu Ile Ser Thr Ala Val Thr Phe Val Asp Val  
 545 550 555 560  
 Ser Ala Pro Ala Glu Ala Gly Phe Arg Ala Pro Pro Ala Ile Asn Ala  
 565 570 575  
 Arg Leu Pro Phe Asn Phe Phe Phe Pro Phe Val  
 580 585

&lt;210&gt; 347

&lt;211&gt; 184

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 347

Met Lys Ala Leu Gly Ala Val Leu Leu Ala Leu Leu Leu Cys Gly Arg  
 1 5 10 15  
 Pro Gly Arg Gly Gln Thr Gln Gln Glu Glu Glu Glu Asp Glu Asp  
 20 25 30  
 His Gly Pro Asp Asp Tyr Asp Glu Glu Asp Glu Asp Glu Val Glu Glu  
 35 40 45  
 Glu Glu Thr Asn Arg Leu Pro Gly Gly Arg Ser Arg Val Leu Leu Arg  
 50 55 60  
 Cys Tyr Thr Cys Lys Ser Leu Pro Arg Asp Glu Arg Cys Asn Leu Thr  
 65 70 75 80  
 Gln Asn Cys Ser His Gly Gln Thr Cys Thr Thr Leu Ile Ala His Gly  
 85 90 95  
 Asn Thr Glu Ser Gly Leu Leu Thr Thr His Ser Thr Trp Cys Thr Asp  
 100 105 110  
 Ser Cys Gln Pro Ile Thr Lys Thr Val Glu Gly Thr Gln Val Thr Met  
 115 120 125  
 Thr Cys Cys Gln Ser Ser Leu Cys Asn Val Pro Pro Trp Gln Ser Ser  
 130 135 140  
 Arg Val Gln Asp Pro Thr Gly Lys Gly Ala Gly Gly Pro Arg Gly Ser  
 145 150 155 160  
 Ser Glu Thr Val Gly Ala Ala Leu Leu Leu Asn Leu Leu Ala Gly Leu  
 165 170 175  
 Gly Ala Met Gly Ala Arg Arg Pro  
 180

&lt;210&gt; 348

&lt;211&gt; 108

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (19)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (21)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (29)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE



&lt;222&gt; (87)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 348

Met Phe Ser Leu Ser Trp Gln Leu Ser Leu Val Thr Phe Met Gly Phe  
 1 5 10 15

Pro Ile Xaa Met Xaa Val Ser Asn Ile Tyr Gly Lys Xaa Tyr Lys Arg  
 20 25 30

Leu Ser Lys Glu Val Gln Asn Ala Leu Ala Arg Ala Ser Asn Thr Ala  
 35 40 45

Glu Glu Thr Ile Ser Ala Met Lys Thr Val Arg Ser Phe Ala Asn Glu  
 50 55 60

Glu Glu Glu Ala Glu Val Tyr Leu Arg Lys Leu Gln Gln Val Tyr Lys  
 65 70 75 80

Leu Asn Arg Lys Glu Ala Xaa Ala Tyr Met Tyr Tyr Val Trp Gly Ser  
 85 90 95

Gly Leu Thr Leu Leu Val Val Gln Val Ser Ile Leu  
 100 105

&lt;210&gt; 349

&lt;211&gt; 219

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 349

Val Thr Ile Leu Cys Ile Asp Leu Gly Thr Asp Met Val Pro Ala Ile  
 1 5 10 15

Ser Leu Ala Tyr Glu Gln Ala Glu Ser Asp Ile Met Lys Arg Gln Pro  
 20 25 30

Arg Asn Pro Lys Thr Asp Lys Leu Val Asn Glu Arg Leu Ile Ser Met  
 35 40 45

Ala Tyr Gly Gln Ile Gly Met Ile Gln Ala Leu Gly Gly Phe Phe Thr  
 50 55 60

Tyr Phe Val Ile Leu Ala Glu Asn Gly Phe Leu Pro Ile His Leu Leu  
 65 70 75 80

Gly Leu Arg Val Asp Trp Asp Asp Arg Trp Ile Asn Asp Val Glu Asp  
 85 90 95

Ser Tyr Gly Gln Gln Trp Thr Tyr Glu Gln Arg Lys Ile Val Glu Phe  
 100 105 110

Thr Cys His Thr Ala Phe Phe Val Ser Ile Val Val Val Gln Trp Ala  
 115 120 125

Asp Leu Val Ile Cys Lys Thr Arg Arg Asn Ser Val Phe Gln Gln Gly  
 130 135 140

Met Lys Asn Lys Ile Leu Ile Phe Gly Leu Phe Glu Glu Thr Ala Leu  
 145 150 155 160

Ala Ala Phe Leu Ser Tyr Cys Pro Gly Met Gly Val Ala Leu Arg Met  
 165 170 175

Tyr Pro Leu Lys Pro Thr Trp Trp Phe Cys Ala Phe Pro Tyr Ser Leu  
 180 185 190

Leu Ile Phe Val Tyr Asp Glu Val Arg Lys Leu Ile Ile Arg Arg Arg  
 195 200 205

Pro Gly Gly Trp Val Glu Lys Glu Thr Tyr Tyr  
 210 215

&lt;210&gt; 350

&lt;211&gt; 73

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 350

Phe Ser Ser Ser Met Ser Leu Ser Phe Leu Pro Phe Leu Pro Phe Leu  
 1 5 10 15

Ser Pro Cys Ser Glu Thr Ala Ala Gly Ser Tyr Leu Ser Arg Pro Thr  
 20 25 30

Pro Phe Pro Met Val Ala Val Leu Ser Ala Gly Ala Gly Ser Cys Arg  
 35 40 45

Trp Arg Ile Arg Glu Lys Ser Thr Glu Gln Leu Pro Ala Glu Arg Ala  
 50 55 60

Gly Pro Gly Glu Pro Ser Gly Gly Ser  
 65 70

&lt;210&gt; 351

&lt;211&gt; 296

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 351

Met Phe Ser Leu Ser Trp Gln Leu Ser Leu Val Thr Phe Met Gly Phe  
 1 5 10 15

Pro Ile Ile Met Met Val Ser Asn Ile Tyr Gly Lys Tyr Tyr Lys Arg  
 20 25 30

Leu Ser Lys Glu Val Gln Asn Ala Leu Ala Arg Ala Ser Asn Thr Ala  
 35 40 45

Glu Glu Thr Ile Ser Ala Met Lys Thr Val Arg Ser Phe Ala Asn Glu  
 50 55 60

Glu Glu Glu Ala Glu Val Tyr Leu Arg Lys Leu Gln Gln Val Tyr Lys  
 65 70 75 80

Leu Asn Arg Lys Glu Ala Ala Ala Tyr Met Tyr Tyr Val Trp Gly Ser  
                     85                    90                    95  
 Gly Leu Thr Leu Leu Val Val Gln Val Ser Ile Leu Tyr Tyr Gly Gly  
                     100                    105                    110  
 His Leu Val Ile Ser Gly Gln Met Thr Ser Gly Asn Leu Ile Ala Phe  
                     115                    120                    125  
 Ile Ile Tyr Glu Phe Val Leu Gly Asp Cys Met Glu Asn Val Ser Phe  
                     130                    135                    140  
 Ser Leu Ser Pro Gly Lys Val Thr Ala Leu Val Gly Pro Ser Gly Ser  
 145                    150                    155                    160  
 Gly Lys Ser Ser Cys Val Asn Ile Leu Glu Asn Phe Tyr Pro Leu Glu  
                     165                    170                    175  
 Gly Gly Arg Val Leu Leu Asp Gly Lys Pro Ile Ser Ala Tyr Asp His  
                     180                    185                    190  
 Lys Tyr Leu His Arg Val Ile Ser Leu Val Ser Gln Glu Pro Val Leu  
                     195                    200                    205  
 Phe Ala Arg Ser Ile Thr Asp Asn Ile Ser Tyr Gly Leu Pro Thr Val  
                     210                    215                    220  
 Pro Phe Glu Met Val Val Glu Ala Ala Gln Lys Ala Asn Ala His Gly  
 225                    230                    235                    240  
 Phe Ile Met Glu Leu Gln Asp Gly Tyr Ser Thr Glu Thr Gly Glu Lys  
                     245                    250                    255  
 Gly Ala Gln Leu Ser Gly Gly Gln Lys Gln Arg Val Ala Trp Pro Gly  
                     260                    265                    270  
 Leu Trp Cys Gly Thr Pro Gln Ser Ser Ser Trp Met Lys Pro Pro Ala  
                     275                    280                    285  
 Leu Trp Met Pro Arg Ala Ser Ile  
                     290                    295

&lt;210&gt; 352

&lt;211&gt; 446

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 352

Met Phe Ser Leu Ser Trp Gln Leu Ser Leu Val Thr Phe Met Gly Phe  
   1                    5                    10                    15  
 Pro Ile Ile Met Met Val Ser Asn Ile Tyr Gly Lys Tyr Tyr Lys Arg  
                     20                    25                    30  
 Leu Ser Lys Glu Val Gln Asn Ala Leu Ala Arg Ala Ser Asn Thr Ala  
                     35                    40                    45

Glu Glu Thr Ile Ser Ala Met Lys Thr Val Arg Ser Phe Ala Asn Glu  
 50 55 60  
 Glu Glu Glu Ala Glu Val Tyr Leu Arg Lys Leu Gln Gln Val Tyr Lys  
 65 70 75 80  
 Leu Asn Arg Lys Glu Ala Ala Ala Tyr Met Tyr Tyr Val Trp Gly Ser  
 85 90 95  
 Gly Leu Thr Leu Leu Val Val Gln Val Ser Ile Leu Tyr Tyr Gly Gly  
 100 105 110  
 His Leu Val Ile Ser Gly Gln Met Thr Ser Gly Asn Leu Ile Ala Phe  
 115 120 125  
 Ile Ile Tyr Glu Phe Val Leu Gly Asp Cys Met Glu Ser Val Gly Ser  
 130 135 140  
 Val Tyr Ser Gly Leu Met Gln Gly Val Gly Ala Ala Glu Lys Val Phe  
 145 150 155 160  
 Glu Phe Ile Asp Arg Gln Pro Thr Met Val His Asp Gly Ser Leu Ala  
 165 170 175  
 Pro Asp His Leu Glu Gly Arg Val Asp Phe Glu Asn Val Thr Phe Thr  
 180 185 190  
 Tyr Arg Thr Arg Pro His Thr Gln Val Leu Gln Asn Val Ser Phe Ser  
 195 200 205  
 Leu Ser Pro Gly Lys Val Thr Ala Leu Val Gly Pro Ser Gly Ser Gly  
 210 215 220  
 Lys Ser Ser Cys Val Asn Ile Leu Glu Asn Phe Tyr Pro Leu Glu Gly  
 225 230 235 240  
 Gly Arg Val Leu Leu Asp Gly Lys Pro Ile Ser Ala Tyr Asp His Lys  
 245 250 255  
 Tyr Leu His Arg Val Ile Ser Leu Val Ser Gln Glu Pro Val Leu Phe  
 260 265 270  
 Ala Arg Ser Ile Thr Asp Asn Ile Ser Tyr Gly Leu Pro Thr Val Pro  
 275 280 285  
 Phe Glu Met Val Val Glu Ala Ala Gln Lys Ala Asn Ala His Gly Phe  
 290 295 300  
 Ile Met Glu Leu Gln Asp Gly Tyr Ser Thr Glu Thr Gly Glu Lys Gly  
 305 310 315 320  
 Ala Gln Leu Ser Gly Gly Gln Lys Gln Arg Val Ala Met Ala Arg Ala  
 325 330 335  
 Leu Val Arg Asn Pro Pro Val Leu Ile Leu Asp Glu Ala Thr Ser Ala  
 340 345 350  
 Leu Asp Ala Glu Ser Glu Tyr Leu Ile Gln Gln Ala Ile His Gly Asn  
 355 360 365

Leu Gln Lys His Thr Val Leu Ile Ile Ala His Arg Leu Ser Thr Val  
 370 375 380

Glu His Ala His Leu Ile Val Val Leu Asp Lys Gly Arg Val Val Gln  
 385 390 395 400

Gln Gly Thr His Gln Gln Leu Leu Ala Gln Gly Gly Leu Tyr Ala Lys  
 405 410 415

Leu Val Gln Arg Gln Met Leu Gly Leu Gln Pro Ala Ala Asp Phe Thr  
 420 425 430

Ala Gly His Asn Glu Pro Val Ala Asn Gly Ser His Lys Ala  
 435 440 445

<210> 353

<211> 35

<212> PRT

<213> Homo sapiens

<400> 353

Lys Phe Lys Gln Val Ile Lys Ser Phe Tyr Lys Ile His Leu Ala Lys  
 1 5 10 15

Glu Ile Leu Ser Met Asn Ile Lys Leu Arg Lys Val Leu Tyr Val Phe  
 20 25 30

Leu Val Asn  
 35

<210> 354

<211> 27

<212> PRT

<213> Homo sapiens

<400> 354

Met Ala Ile Phe Cys Phe Ser Leu Cys Ser Leu Gly Ser Ile Leu Gly  
 1 5 10 15

Lys Gly Met Ser Thr Phe Gly Ser Ile Ser Val  
 20 25

<210> 355

<211> 99

<212> PRT

<213> Homo sapiens

<400> 355

Met Gly Arg Val Ser Ile Gln Gln Leu Gly Val Leu Val Ala Leu Pro  
 1 5 10 15

Val Pro Leu Leu Leu Leu Gly Cys Gly Ser Ala Leu His Pro Gly Ala  
 20 25 30

Pro Arg Ser Ile Pro His Thr Met Pro Ser Thr Arg Glu Val Gly Gln  
                   35                                  40                                  45

Thr Arg Pro Gly Pro Cys Gln Pro Ser Val Pro Arg Phe Ser His Trp  
           50                                  55                                  60

Leu His Arg Met Val Ala Phe Ser Leu Pro Thr Ser Gln Ser Cys Ser  
   65                                  70                                  75                                  80

Glu Gly Ala Trp Arg Ser Thr Leu Ser His Gln Gly Gln Leu Glu Thr  
                                   85                                  90                                  95

Lys Ala Ile

<210> 356  
 <211> 99  
 <212> PRT  
 <213> Homo sapiens

<400> 356  
 Met Gly Arg Val Ser Ile Gln Gln Leu Gly Val Leu Val Ala Leu Pro  
   1                                  5                                  10                                  15

Val Pro Leu Leu Leu Leu Gly Cys Gly Ser Ala Leu His Pro Gly Ala  
                                   20                                  25                                  30

Pro Arg Ser Ile Pro His Thr Met Pro Ser Thr Arg Glu Val Gly Gln  
                   35                                  40                                  45

Thr Arg Pro Gly Pro Cys Gln Pro Ser Val Pro Arg Phe Ser His Trp  
   50                                  55                                  60

Leu His Arg Met Val Ala Phe Ser Leu Pro Thr Ser Gln Ser Cys Ser  
   65                                  70                                  75                                  80

Glu Gly Ala Trp Arg Ser Thr Leu Ser His Gln Gly Gln Leu Glu Thr  
                                   85                                  90                                  95

Lys Ala Ile

<210> 357  
 <211> 99  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (75)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 357  
 Met Gly Arg Val Ser Ile Gln Gln Leu Gly Val Leu Val Ala Leu Pro  
   1                                  5                                  10                                  15

Val Pro Leu Leu Leu Gly Cys Gly Ser Ala Leu His Pro Gly Ala  
                   20                  25                  30

Pro Arg Ser Ile Pro His Thr Met Pro Ser Thr Arg Glu Val Gly Gln  
                   35                  40                  45

Thr Arg Pro Gly Pro Cys Gln Pro Ser Val Pro Arg Phe Ser His Trp  
                   50                  55                  60

Leu His Arg Met Val Ala Phe Ser Leu Pro Xaa Ser Gln Ser Cys Ser  
                   65                  70                  75                  80

Glu Gly Ala Trp Arg Ser Thr Leu Ser His Gln Gly Gln Leu Glu Thr  
                   85                  90                  95

Lys Ala Ile

<210> 358  
 <211> 67  
 <212> PRT  
 <213> Homo sapiens

<400> 358  
 Pro Ile Pro Trp Leu Cys Pro Pro Ser Pro Thr Leu Pro Leu Leu Ser  
   1                  5                  10                  15

Ile Phe Phe Leu Pro Thr His Pro Pro Pro Pro Ser Arg Arg Gly Gly  
                   20                  25                  30

Leu Gly Arg Pro Arg Pro Ser Leu Glu Lys Pro Ser Leu Ser Ser Ala  
                   35                  40                  45

Val Val Pro Pro Pro Asn Pro Ile Thr Ala Ala His Pro Ile Leu Thr  
                   50                  55                  60

Val Ile Leu  
   65

<210> 359  
 <211> 4  
 <212> PRT  
 <213> Homo sapiens

<400> 359  
 Ala Pro Arg Gly  
   1

<210> 360  
 <211> 71  
 <212> PRT  
 <213> Homo sapiens

<400> 360

Met Gln Asn Arg Ser Pro Ala Phe Cys Phe Leu Leu Met Tyr Leu Leu  
 1 5 10 15  
 Cys Thr Cys Val Thr Arg Val Leu Leu Ser Ile Ile Phe Asn Leu Ile  
 20 25 30  
 Arg Ala Tyr Leu Trp Ser Trp His Asp Val Thr Pro Cys Val Arg Val  
 35 40 45  
 Gly Ile Thr Pro Val Tyr Leu Phe Leu Ser Ser Ala Ala His Asn Ala  
 50 55 60  
 Arg His Ile Val Gly Thr Leu  
 65 70

<210> 361  
 <211> 71  
 <212> PRT  
 <213> Homo sapiens

<400> 361  
 Met Gln Asn Arg Ser Pro Ala Phe Cys Phe Leu Leu Met Tyr Leu Leu  
 1 5 10 15  
 Cys Thr Cys Val Thr Arg Val Leu Leu Ser Ile Ile Phe Asn Leu Ile  
 20 25 30  
 Arg Ala Tyr Leu Trp Ser Trp His Asp Val Thr Pro Cys Val Arg Val  
 35 40 45  
 Gly Ile Thr Pro Val Tyr Leu Phe Leu Ser Ser Ala Ala His Asn Ala  
 50 55 60  
 Arg His Ile Val Gly Thr Leu  
 65 70

<210> 362  
 <211> 51  
 <212> PRT  
 <213> Homo sapiens

<400> 362  
 Met Leu Gln Asp Leu Cys Leu Cys Leu Phe Ser Ser Phe Phe Leu Ser  
 1 5 10 15  
 Leu Phe Val Cys Leu Lys Val Gly Gln Lys Ile Leu Leu Leu Thr Asp  
 20 25 30  
 Phe Pro Trp Ser Ala Ala Val Lys Arg Ser Leu Ser Leu Leu Ser Phe  
 35 40 45  
 Leu Met Glu  
 50



<210> 363  
 <211> 51  
 <212> PRT  
 <213> Homo sapiens

<400> 363  
 Met Leu Gln Asp Leu Cys Leu Cys Leu Phe Ser Ser Phe Phe Leu Ser  
 1 5 10 15  
 Leu Phe Val Cys Leu Lys Val Gly Gln Lys Ile Leu Leu Leu Thr Asp  
 20 25 30  
 Phe Pro Trp Ser Ala Ala Val Lys Arg Ser Leu Ser Leu Leu Ser Phe  
 35 40 45  
 Leu Met Glu  
 50

<210> 364  
 <211> 53  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (41)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
 <400> 364  
 Ser Cys Phe Leu Ala Leu Lys Ser Ile Leu Ala Val Cys Gly Gly Ser  
 1 5 10 15  
 His Leu Pro Pro Ala Leu Trp Glu Ala Ser Gly Gly Gly Leu Val Pro  
 20 25 30  
 Asn Ser Cys Ser Pro Gly Asp Pro Xaa Val Leu Glu Arg Pro Pro Pro  
 35 40 45  
 Arg Trp Ser Ser Ser  
 50

<210> 365  
 <211> 110  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (97)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
 <400> 365  
 Met Asp Asn Arg Phe Ala Thr Ala Phe Val Ile Ala Cys Val Leu Ser  
 1 5 10 15  
 Leu Ile Ser Thr Ile Tyr Met Ala Ala Ser Ile Gly Thr Asp Phe Trp

	20		25		30										
Tyr	Glu	Tyr	Arg	Ser	Pro	Val	Gln	Glu	Asn	Ser	Ser	Asp	Leu	Asn	Lys
	35						40					45			
Ser	Ile	Trp	Asp	Glu	Phe	Ile	Ser	Asp	Glu	Ala	Asp	Glu	Lys	Thr	Tyr
	50					55					60				
Asn	Asp	Ala	Leu	Phe	Arg	Tyr	Asn	Gly	Thr	Val	Gly	Leu	Trp	Arg	Arg
65					70					75					80
Cys	Ile	Thr	Ile	Pro	Lys	Asn	Met	His	Trp	Tyr	Ser	Pro	Pro	Glu	Arg
				85					90					95	
Xaa	Glu	Ser	Phe	Asp	Val	Val	Thr	Lys	Cys	Val	Ser	Ser	His		
	100							105					110		

&lt;210&gt; 366

&lt;211&gt; 165

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (2)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (4)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (5)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (148)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 366

Arg	Xaa	Thr	Xaa	Xaa	His	Phe	Ala	Arg	Thr	Tyr	Pro	Gly	Ile	His	Leu
1				5					10					15	

Arg	Ile	Gly	Ser	Asp	Trp	Lys	Asn	Ala	Cys	Ala	Met	Leu	Lys	Asp	Gly
		20						25					30		

Thr	Ala	Gly	Ser	His	Phe	Met	Ala	Ser	Pro	Gln	Cys	Val	Gly	Tyr	Ser
	35						40					45			

Arg	Ser	Thr	Ala	Ala	Pro	Leu	Thr	Met	Thr	Met	Cys	Leu	Pro	Asp	Leu
	50					55					60				

Lys	Glu	Ile	Gln	Arg	Ala	Val	Lys	Leu	Trp	Val	Arg	Ser	Leu	Asp	Ala
65					70					75				80	

Gln Ser Val Tyr Val Ala Thr Asp Ser Glu Ser Tyr Val Pro Glu Leu  
                             85                            90                            95

Gln Gln Leu Phe Lys Gly Lys Val Lys Val Val Ser Leu Lys Pro Glu  
                             100                            105                            110

Val Ala Gln Val Asp Leu Tyr Ile Leu Gly Gln Ala Asp His Phe Ile  
                             115                            120                            125

Gly Asn Cys Val Ser Ser Phe Thr Ala Phe Val Lys Arg Glu Arg Asp  
                             130                            135                            140

Leu Gln Gly Xaa Pro Ser Ser Phe Phe Gly Met Asp Arg Pro Pro Lys  
                             145                            150                            155                            160

Leu Arg Asp Glu Phe  
                             165

&lt;210&gt; 367

&lt;211&gt; 177

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 367

Leu Val Leu Trp Thr Arg Phe Tyr Arg Gly Asp Met Ser Leu His Ser  
   1                            5                            10                            15

Ser Pro Thr Leu Pro Thr Ser Leu Tyr Gln Ser Cys Asp Leu Ser Val  
                             20                            25                            30

Gly Gly Pro Ser Leu Leu Thr Trp Val Trp Arg Arg Glu Arg Arg Cys  
                             35                            40                            45

Cys Lys Val Phe Ser Val Ser His Cys Leu Glu Ala Gly Pro Ala Lys  
                             50                            55                            60

Ala Trp Ala His Ser Cys Thr Gly Ser Pro Arg Gly Arg Thr Gly Trp  
   65                            70                            75                            80

Gly Ser Arg Ala Cys Glu Ala Leu Gly Lys Gly Met Gly Leu Trp Gly  
                             85                            90                            95

Arg Gly Gly Met Gly Phe Arg Ser Ile Cys Thr Ile Arg Lys Val Leu  
                             100                            105                            110

Arg Ser Phe Phe Leu Glu Gly Thr Leu Ser Ser Leu Ser Leu Phe Leu  
                             115                            120                            125

Asp Leu Gly Leu Glu Leu Arg Met Gly Arg Cys Ala Gln Gly Gly Thr  
                             130                            135                            140

His Gln Ser Thr Arg Glu Gly Gly Tyr Leu Gly Val Ser Gln Gly Leu  
                             145                            150                            155                            160

Cys Gln Cys Leu Gln Pro Thr Ser Arg Ser Leu Glu Phe Gly Glu Trp  
                             165                            170                            175

Gly

<210> 368  
 <211> 184  
 <212> PRT  
 <213> Homo sapiens

<400> 368

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Met Asp Asn Arg Phe Ala Thr Ala Phe Val Ile Ala Cys Val Leu Ser
 1              5              10              15

Leu Ile Ser Thr Ile Tyr Met Ala Ala Ser Ile Gly Thr Asp Phe Trp
              20              25              30

Tyr Glu Tyr Arg Ser Pro Val Gln Glu Asn Ser Ser Asp Leu Asn Lys
              35              40              45

Ser Ile Trp Asp Glu Phe Ile Ser Asp Glu Ala Asp Glu Lys Thr Tyr
 50              55              60

Asn Asp Ala Leu Phe Arg Tyr Asn Gly Thr Val Gly Leu Trp Arg Arg
 65              70              75              80

Cys Ile Thr Ile Pro Lys Asn Met His Trp Tyr Ser Pro Pro Glu Arg
              85              90              95

Thr Glu Ser Phe Asp Val Val Thr Lys Cys Val Ser Phe Thr Leu Thr
              100              105              110

Glu Gln Phe Met Glu Lys Phe Val Asp Pro Gly Asn His Asn Ser Gly
              115              120              125

Ile Asp Leu Leu Arg Thr Tyr Leu Trp Arg Cys Gln Phe Leu Leu Pro
              130              135              140

Phe Val Ser Leu Gly Leu Met Cys Phe Gly Ala Leu Ile Gly Leu Cys
              145              150              155              160

Ala Cys Ile Cys Arg Ser Leu Tyr Pro Thr Ile Ala Thr Gly Ile Leu
              165              170              175

His Leu Leu Ala Asp Thr Met Leu
              180

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<210> 369  
 <211> 211  
 <212> PRT  
 <213> Homo sapiens

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

&lt;222&gt; (113)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 369

Ser	Thr	His	Ala	Ser	Gly	Arg	Thr	Cys	Ala	Leu	Pro	Ala	Ala	Ala	Thr
1				5				10				15			

Pro	Arg	Arg	Val	Gly	Ala	Ala	Ala	Pro	Gly	Cys	Ala	Gln	Gly	Arg	Ala
			20					25				30			

Thr	Asp	Gly	Ala	Arg	Arg	Ala	Glu	Leu	Arg	Arg	Glu	Pro	Ala	Val	Val
		35					40					45			

Ala	His	Arg	His	Gly	His	Ala	Gly	Ala	His	Gln	Gly	Gly	Ala	Gln	Xaa
	50					55				60					

Ala	Ala	Gln	Pro	His	Arg	Arg	Leu	Gln	Val	Pro	Gln	Ala	Gln	Ala	Gly
65					70					75					80

Ala	His	Leu	Ala	Pro	Gly	Arg	Glu	Ser	Glu	Asp	Pro	Gln	Glu	Ser	Glu
				85				90						95	

His	Gly	Ala	Gly	Val	His	Gly	Glu	Pro	Ala	Ala	Arg	Ala	Gly	Gly	Ala
		100						105					110		

Xaa	Gln	Ala	Glu	Ser	Pro	Gln	Pro	Arg	Gln	Gln	Arg	Leu	Pro	Ala	Ala
	115						120					125			

Ala	Pro	Ala	Pro	Gly	Ala	Arg	Val	Leu	Ser	Pro	Arg	Ala	Gly	Arg	Met
	130					135					140				

Arg	Gly	His	Pro	Pro	Gln	Gly	Ala	Gly	Ser	Arg	Gly	Gly	Val	Val	Gly
145					150					155					160

Ala	Pro	Asp	Leu	Glu	Arg	Val	Arg	Pro	Trp	Gly	Pro	Pro	Leu	Pro	Glu
			165						170					175	

Cys	Ala	Gln	Glu	Leu	Arg	Glu	Gly	Ala	Ala	Pro	Gly	Asp	Ser	Pro	Pro
			180					185					190		

Pro	Arg	Val	Pro	Arg	Thr	Arg	Gln	Ala	Gly	Pro	Pro	Ala	Pro	Gly	Gly
		195					200					205			

Ala	Ser	Ala
	210	

&lt;210&gt; 370

&lt;211&gt; 225

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (11)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (112)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (166)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 370

Arg Pro Asp Leu Glu Arg Val Arg Pro Trp Xaa Pro Pro Leu Pro Glu  
 1 5 10 15

Cys Ala Gln Glu Leu Arg Glu Gly Ala Ala Pro Gly Ile Pro Pro Arg  
 20 25 30

Gly Cys Pro Gly Leu Gly Arg Gly Ala Pro Asp Ser Thr Ser Trp Thr  
 35 40 45

Pro Cys Ser Arg Gly Gly Glu Arg Met Thr Pro Pro Pro Ser Arg Cys  
 50 55 60

Leu Phe Pro Pro Arg Gly Arg Pro Val Leu His Lys Pro Ala Arg Leu  
 65 70 75 80

Gly Cys Pro Phe Val His Arg Ala Gly Lys Gly Ala Pro Arg Gly Arg  
 85 90 95

Ser Ser Lys Pro Cys Leu Ser Phe Thr Phe Thr Phe Phe Phe Xaa  
 100 105 110

Phe Gly Arg Glu Lys Asn Arg Val Phe Asp Ser Ala Leu Phe Met Phe  
 115 120 125

Leu Leu Gly Asn Lys Arg Trp Leu Cys Val Cys Val Phe Ser Cys Val  
 130 135 140

Gly Phe Leu Lys Lys Trp Glu Glu Glu Lys Lys Ile Leu Arg Pro Phe  
 145 150 155 160

Pro Arg Ser Arg Ser Xaa Leu Arg Phe Phe Arg Pro Val Pro Pro Pro  
 165 170 175

Phe Phe Val Leu Phe Cys Phe Val Leu Leu Arg Val His Ile Pro Val  
 180 185 190

Cys Asn Pro Trp Phe Ala Arg Phe Ser Val Phe Ser Lys Val Ser Leu  
 195 200 205

Arg Gln Lys Pro Arg Ala Glu Phe Leu Gly Leu Glu Gly Gln Asn Phe  
 210 215 220

Pro  
 225

&lt;210&gt; 371

&lt;211&gt; 68

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 371

Met Ile Pro Phe Phe Leu Val Trp Val Ser Phe Leu His Ser Phe Ser  
 1 5 10 15

Val Ala Cys Ile Leu Gly His His Glu Cys Phe Ala Phe Ser Leu Ala  
 20 25 30

Asp Asp Thr Ile Gly Thr Ala Trp His Gly Gly Lys Val Ser His Lys  
 35 40 45

Leu Thr Tyr Lys His Cys Gly Ser Arg Ala His Asp Tyr Leu Glu Gly  
 50 55 60

Glu Ser Leu Leu  
 65

&lt;210&gt; 372

&lt;211&gt; 62

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 372

Val Ile Pro Phe Tyr Ile His Tyr Phe Val Tyr Phe Asn Cys Phe Ile  
 1 5 10 15

Leu Val Thr Leu Pro Phe Lys Ile Phe Lys Leu Pro Ile Val Arg Cys  
 20 25 30

Gln Trp Glu Trp Thr Pro Asp Gly Gln Ile Tyr Lys Trp Gln Trp Leu  
 35 40 45

Asp Gln Thr Arg Thr Leu Glu Asp Gly Arg Val Gly Ala Lys  
 50 55 60

&lt;210&gt; 373

&lt;211&gt; 29

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (11)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (13)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 373

Ile Pro Leu Trp Phe Ile Ser Val Ser Phe Xaa Met Xaa Arg Phe Thr  
 1 5 10 15

Ile Leu Asn Gln Tyr His Val Thr Cys Arg Cys Gln Asn  
 20 25

&lt;210&gt; 374

&lt;211&gt; 68

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 374

Met Ile Pro Phe Phe Leu Val Trp Val Ser Phe Leu His Ser Phe Ser  
 1 5 10 15

Val Ala Cys Ile Leu Gly His His Glu Cys Phe Ala Phe Ser Leu Ala  
 20 25 30

Asp Asp Thr Ile Gly Thr Ala Trp His Gly Gly Lys Val Ser His Lys  
 35 40 45

Leu Thr Tyr Lys His Cys Gly Ser Arg Ala His Asp Tyr Leu Glu Gly  
 50 55 60

Glu Ser Leu Leu  
 65

&lt;210&gt; 375

&lt;211&gt; 57

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (42)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (44)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 375

Leu Leu Ser Ala Met Leu Pro Gly Glu Asn Glu Ile Val Ala Trp Ile  
 1 5 10 15

Asn Glu Ser Val Cys Val Ala Arg Ser Gly Leu Ala Leu Asp Val Asp  
 20 25 30

Gly Ala Pro Ala Leu Ser Pro Gln Leu Xaa Ser Xaa Lys Ile Ser Asn  
 35 40 45

Leu Glu Glu Asn Gly Arg Thr Val Glu  
 50 55

&lt;210&gt; 376

&lt;211&gt; 43

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens



&lt;400&gt; 376

Met Ala Leu Val Val Glu Ala Val Ile Ile Ile Phe Ile Glu Cys Gln  
 1 5 10 15

Ala Leu Cys Ile Ile Leu Ser Ser Ser His Ile Asn Arg Arg Arg Gln  
 20 25 30

Val Val Ile Ala Pro Phe Gly Glu Ser Glu Asn  
 35 40

&lt;210&gt; 377

&lt;211&gt; 24

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 377

Ser Ala Cys Phe Cys Cys Ala Ala Ser Ser Leu Phe Ser Ser Phe Ser  
 1 5 10 15

Ile Val Ser Pro Leu Trp Lys Lys  
 20

&lt;210&gt; 378

&lt;211&gt; 477

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (49)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (57)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (105)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (109)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (152)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (194)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (197)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (198)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (203)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (459)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (463)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (468)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 378

Met	Val	Asn	Ala	Cys	Trp	Cys	Gly	Leu	Leu	Ala	Ala	Leu	Ser	Leu	Leu
1				5				10					15		

Leu	Asp	Ala	Ser	Thr	Asp	Glu	Ala	Ala	Thr	Glu	Asn	Ile	Leu	Lys	Ala
	20						25						30		

Glu	Leu	Thr	Met	Ala	Ala	Leu	Cys	Gly	Lys	Leu	Gly	Leu	Val	Thr	Ser
	35					40					45				

Xaa	Asn	Ala	Phe	Ile	Thr	Ala	Ile	Xaa	Lys	Gly	Ser	Leu	Pro	Pro	His
	50					55					60				

Tyr	Ala	Leu	Thr	Val	Leu	Asn	Thr	Thr	Thr	Ala	Ala	Thr	Leu	Ser	Asn
65					70					75					80

Lys	Ser	Tyr	Ser	Val	Gln	Gly	Gln	Ser	Val	Met	Met	Ile	Ser	Pro	Ser
				85					90					95	

Ser	Glu	Ser	His	Gln	Gln	Val	Val	Xaa	Val	Gly	Gln	Xaa	Leu	Ala	Val
			100					105					110		

Gln	Pro	Gln	Gly	Thr	Val	Met	Leu	Thr	Ser	Lys	Asn	Ile	Gln	Cys	Met
		115					120						125		

Arg	Thr	Leu	Leu	Asn	Leu	Ala	His	Cys	His	Gly	Ala	Val	Leu	Gly	Thr
	130					135					140				

Ser Trp Gln Leu Val Leu Ala Xaa Leu Gln His Leu Val Trp Ile Leu  
 145 150 155 160  
 Gly Leu Lys Pro Ser Ser Gly Gly Ala Leu Lys Pro Gly Arg Ala Val  
 165 170 175  
 Glu Gly Pro Ser Thr Val Leu Thr Thr Ala Val Met Thr Asp Leu Pro  
 180 185 190  
 Val Xaa Ser Asn Xaa Xaa Ser Arg Leu Phe Xaa Ser Ser Gln Tyr Leu  
 195 200 205  
 Asp Asp Val Ser Leu His His Leu Ile Asn Ala Leu Cys Ser Leu Ser  
 210 215 220  
 Leu Glu Ala Met Asp Met Ala Tyr Gly Asn Asn Lys Glu Pro Ser Leu  
 225 230 235 240  
 Phe Ala Val Ala Lys Leu Leu Glu Thr Gly Leu Val Asn Met His Arg  
 245 250 255  
 Ile Glu Ile Leu Trp Arg Pro Leu Thr Gly His Leu Leu Glu Val Cys  
 260 265 270  
 Gln His Pro Asn Ser Arg Met Arg Glu Trp Gly Ala Glu Ala Leu Thr  
 275 280 285  
 Ser Leu Ile Lys Ala Gly Leu Thr Phe Asn His Asp Pro Pro Leu Ser  
 290 295 300  
 Gln Asn Gln Arg Leu Gln Leu Leu Leu Leu Asn Pro Leu Lys Glu Met  
 305 310 315 320  
 Ser Asn Ile Asn His Pro Asp Ile Arg Leu Lys Gln Leu Glu Cys Val  
 325 330 335  
 Leu Gln Ile Leu Gln Ser Gln Gly Asp Ser Leu Gly Pro Gly Trp Pro  
 340 345 350  
 Leu Val Leu Gly Val Met Gly Ala Ile Arg Asn Asp Gln Gly Glu Ser  
 355 360 365  
 Leu Ile Arg Thr Ala Phe Gln Cys Leu Gln Leu Val Val Thr Asp Phe  
 370 375 380  
 Leu Pro Thr Met Pro Cys Thr Cys Leu Gln Ile Val Val Asp Val Ala  
 385 390 395 400  
 Gly Ser Phe Gly Leu His Asn Gln Glu Leu Asn Ile Ser Leu Thr Ser  
 405 410 415  
 Ile Gly Leu Leu Trp Asn Ile Ser Asp Tyr Phe Phe Gln Arg Gly Glu  
 420 425 430  
 Thr Ile Glu Lys Glu Leu Asn Lys Glu Glu Ala Ala Gln Gln Lys Gln  
 435 440 445  
 Ala Glu Glu Lys Gly Val Gly Leu Asn Arg Xaa Phe His Pro Xaa Pro  
 450 455 460

Ala Phe Asp Xaa Trp Gly Tyr Ala Leu Cys Lys Ile Gly  
 465 470 475

<210> 379  
 <211> 29  
 <212> PRT  
 <213> Homo sapiens

<400> 379  
 Asn Ser Gln Tyr Phe Thr Thr Asn Ile Ala Leu Met Phe Leu Phe Lys  
 1 5 10 15

Lys Lys Lys Val Tyr Gly Cys Leu His Leu Ser Thr Val  
 20 25

<210> 380  
 <211> 70  
 <212> PRT  
 <213> Homo sapiens

<400> 380  
 Met His Leu Asn Val Gln Tyr Cys Thr Ile His Leu Ile Leu Leu Leu  
 1 5 10 15

Leu Phe Ile Thr Arg His Tyr Ala Tyr Gln Trp Thr Phe Gln Val Gly  
 20 25 30

Gly Leu Thr Val Ala Ser Ser Val Val Trp Gln His Pro Ser Ala Val  
 35 40 45

Ser Ile Tyr Thr Leu Leu Tyr Ile Tyr Ala Pro His Gln Gly Ser Thr  
 50 55 60

Gly Thr Arg Arg His Cys  
 65 70

<210> 381  
 <211> 67  
 <212> PRT  
 <213> Homo sapiens

<400> 381  
 Leu Gln Glu Phe Gly Thr Ser Gly Thr Ser Ala Asn Thr Thr Ala Val  
 1 5 10 15

Ala Leu Asn Ala Pro Ala His Pro Ala Arg Leu Leu Pro Pro Gly Pro  
 20 25 30

Ala Val Ala Leu Leu Leu Leu Arg Gly Ser Cys Ser Leu Cys Cys Cys  
 35 40 45

His Gln Pro His Lys Ala Ser Cys Lys Ala Met Pro Ser Ala Gly Ser  
 50 55 60

Asn Val Pro  
65

<210> 382  
<211> 79  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (23)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (45)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 382  
Met Gly Cys Cys Ser Lys Lys Tyr Trp Gln Leu Leu Leu Gly Ala Ala  
1 5 10 15  
Pro Trp Gly Val Ile Pro Xaa Leu Leu Leu Trp Met Gly Thr Arg Ala  
20 25 30  
Pro His Phe Lys Asp Ser Val Ser Gln Gly Leu Pro Xaa Lys Ala Glu  
35 40 45  
Glu Ser Arg Ala Asn Phe Asn Gln Phe Leu Val Leu Leu Met Pro Lys  
50 55 60  
Glu Met Ile Val Leu Thr Ile Val His Pro Ile Val Arg Arg Ala  
65 70 75

<210> 383  
<211> 39  
<212> PRT  
<213> Homo sapiens

<400> 383  
Met Phe Leu Val Ser Pro Ser Val Ser Ser Val Val Ser Ser Leu Leu  
1 5 10 15  
Ser Ile Phe Trp Leu Met His Leu Gly Gln Val Trp Leu Gly Ser Met  
20 25 30  
Glu Thr His Pro Ile Thr Ser  
35

<210> 384  
<211> 39  
<212> PRT  
<213> Homo sapiens

&lt;400&gt; 384

Met Phe Leu Val Ser Pro Ser Val Ser Ser Val Val Ser Ser Leu Leu  
1 5 10 15

Ser Ile Phe Trp Leu Met His Leu Gly Gln Val Trp Leu Gly Ser Met  
20 25 30

Glu Thr His Pro Ile Thr Ser  
35

&lt;210&gt; 385

&lt;211&gt; 39

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 385

Met Phe Leu Val Ser Pro Ser Val Ser Ser Val Val Ser Ser Leu Leu  
1 5 10 15

Ser Ile Phe Trp Leu Met His Leu Gly Gln Val Trp Leu Gly Ser Met  
20 25 30

Glu Thr His Pro Ile Thr Ser  
35

&lt;210&gt; 386

&lt;211&gt; 198

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (9)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (12)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (97)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (164)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (196)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 386

Pro Asp Pro Asn Ala Arg Arg Gly Xaa Asn Ala Xaa Ser Thr Arg Thr  
 1 5 10 15  
 Asp His Glu His Arg Thr Tyr Arg Leu Tyr Arg Arg Pro Ser Arg Phe  
 20 25 30  
 Arg Asp Ser Pro Ala Gln Arg Pro Tyr Pro Ala Ala Gly Tyr Val Glu  
 35 40 45  
 Thr Val Ala Arg Ala His Glu Ala Ala Gly Phe Asp Arg Ala Leu Val  
 50 55 60  
 Ala Phe His Ser Asn Ser Pro Asp Ser Thr Leu Ile Ala Ala His Ala  
 65 70 75 80  
 Ala Ser Val Thr Gln Lys Leu Gln Phe Leu Ile Ala His Arg Pro Gly  
 85 90 95  
 Xaa Ala Gln Pro Thr Leu Ala Ala Arg Gln Phe Ala Thr Leu Asp Val  
 100 105 110  
 Phe Asn Gly Gly Arg Thr Ala Val His Ile Ile Thr Gly Gly Asp Asp  
 115 120 125  
 Arg Glu Leu Arg Ala Asp Gly Ser His Ile Gly Lys Asp Glu Arg Tyr  
 130 135 140  
 Ala Arg Thr Asp Glu Tyr Leu Ser Val Val Arg Gln Glu Trp Thr His  
 145 150 155 160  
 Glu Gln Pro Xaa Asp Phe Lys Gly Thr Tyr Tyr Gln Val Glu Gly Ala  
 165 170 175  
 His Ser Thr Val Lys Ser Pro Gln Gln Pro His Ile Pro Leu Tyr Phe  
 180 185 190  
 Gly Gly Ser Xaa Arg Gly  
 195

&lt;210&gt; 387

&lt;211&gt; 34

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 387

Glu Leu Gly Arg Leu Arg His Pro Thr Gln Gly Lys Pro Ala Cys His  
 1 5 10 15

Ile Glu Cys Thr Ala Leu Ile Lys Phe Thr His Asp Asn Ser Ala Phe  
 20 25 30

Tyr Asn

&lt;210&gt; 388

&lt;211&gt; 207

<212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (105)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (110)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (111)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (116)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (129)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (133)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 388

Met Arg Pro Trp Arg Phe Gly Trp Pro Arg Thr Leu Ala Ser Gln Leu  
 1 5 10 15

Ser Leu Ile Phe Leu Ile Ser Leu Val Cys Ala His Gly Leu Ser Phe  
 20 25 30

Ser Ala Gln Phe Tyr Glu Arg Tyr Ile Ser Ala Arg Thr Val Met Leu  
 35 40 45

Gly Asn Leu Glu Asn Asp Val Ser Thr Ser Val Ala Ile Leu Asp Arg  
 50 55 60

Leu Pro Ala Asn Glu Arg Ala Ile Gly Trp Arg Val Leu Arg Pro Ala  
 65 70 75 80

Glu Leu Pro Val Leu Leu Asn Ala Gly Glu Ala Gly Glu Pro Met Thr  
 85 90 95

Ser Asn Asp Val Pro Met Ala Ala Xaa Phe Asp Cys Gly Xaa Xaa Gly  
 100 105 110

Arg Ala Leu Xaa Pro Asp Leu Ser Arg Tyr Ser Arg His Pro Glu Thr  
 115 120 125

Xaa Pro Gly Ala Xaa Asp Pro Gly Arg Trp Gln Pro Asp His Pro Arg  
 130 135 140



Arg Thr Pro Arg Arg Pro Ala Arg Ser Leu Leu Val Ala Gly Gly Ala  
145 150 155 160

Gly Ala Ala Thr Gly Ala Ala Ala Arg Leu His Leu Gly Arg Gly Ala  
165 170 175

Pro Gly Arg Ala Pro Ala Asp Thr Pro Gly Pro Cys Gly Arg Asn Pro  
180 185 190

Arg Pro Glu Arg Ser Pro His Thr Pro Gly Arg Asn Arg Pro Glu  
195 200 205

<210> 389

<211> 18

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 389

Gly Trp Pro Arg Trp Arg Arg Glu Arg Cys Ala Asn Thr Pro Xaa Val  
1 5 10 15

Xaa Leu

<210> 390

<211> 435

<212> PRT

<213> Homo sapiens

<400> 390

Met Arg Pro Trp Arg Phe Gly Trp Pro Arg Thr Leu Ala Ser Gln Leu  
1 5 10 15

Ser Leu Ile Phe Leu Ile Ser Leu Val Cys Ala His Gly Leu Ser Phe  
20 25 30

Ser Ala Gln Phe Tyr Glu Arg Tyr Ile Ser Ala Arg Thr Val Met Leu  
35 40 45

Gly Asn Leu Glu Asn Asp Val Ser Thr Ser Val Ala Ile Leu Asp Arg  
50 55 60

Leu Pro Ala Asn Glu Arg Ala Ser Trp Leu Ala Arg Leu Asp Arg Gln  
65 70 75 80

Asn Tyr Arg Tyr Leu Leu Asn Ala Gly Glu Ala Gly Glu Pro Met Thr  
 85 90 95  
 Ser Asn Asp Val Pro Met Ala Ala Thr Ser Ile Ala Asp Ala Leu Gly  
 100 105 110  
 Glu His Tyr Ala Leu Thr Phe Arg Asp Ile Pro Gly Ile Gln Lys His  
 115 120 125  
 Phe Gln Val His Leu Thr Leu Ala Asp Gly Asn Pro Ile Thr Leu Asp  
 130 135 140  
 Val Arg Pro Ala Ala Leu Pro Val Ala Tyr Trp Leu Pro Val Val Leu  
 145 150 155 160  
 Val Leu Gln Leu Ala Leu Leu Leu Gly Cys Thr Trp Val Ala Val Arg  
 165 170 175  
 Leu Ala Val Arg Pro Leu Thr Arg Leu Ala Arg Ala Val Glu Thr Leu  
 180 185 190  
 Asp Pro Asn Ala His Pro Thr Pro Leu Asp Glu Thr Gly Pro Ser Glu  
 195 200 205  
 Val Ala His Ala Ala Ala Ala Phe Asn Ala Met Gln Gln Arg Ile Ala  
 210 215 220  
 Glu Tyr Leu Lys Glu Arg Met Gln Ile Leu Ala Ala Ile Ser His Asp  
 225 230 235 240  
 Leu Gln Thr Pro Ile Thr Arg Met Lys Leu Arg Ala Glu Phe Met Asp  
 245 250 255  
 Asp Ser Ala Asp Arg Glu Lys Leu Trp Ser Asp Leu Ser Glu Met Glu  
 260 265 270  
 His Leu Val Arg Glu Gly Val Ala Tyr Ala Arg Ser Val His Gly Ala  
 275 280 285  
 Thr Glu Ala Ser His Arg Ile Asp Leu Asp Ala Phe Leu Asp Ser Leu  
 290 295 300  
 Val Phe Asp Tyr Gln Asp Met Gln Lys Gln Val Ser Leu Arg Gly Lys  
 305 310 315 320  
 Ser Ala Leu Ile Leu Asp Thr Arg Pro His Ala Leu Arg Arg Val Leu  
 325 330 335  
 Val Asn Leu Val Asp Asn Ala Leu Lys Phe Ala Gly Asn Ala Glu Leu  
 340 345 350  
 Glu Val Gly Ser Thr Ala Asn Gly Gln Leu Ser Ile Lys Val Leu Asp  
 355 360 365  
 Gln Gly Pro Gly Ile Ala Glu Asp Glu Leu Ala Gln Val Leu Gln Pro  
 370 375 380  
 Phe Tyr Arg Val Glu Ser Ser Arg Asn Arg Gly Thr Gly Gly Thr Gly  
 385 390 395 400

Leu Gly Leu Ala Ile Ala Gln Gln Leu Ala Val Ala Ile Gly Gly Thr  
                     405                    410                    415

Leu Thr Leu Ser Asn Arg Val Glu Gly Gly Leu Cys Ala Glu Ile Arg  
                     420                    425                    430

Leu Ser Leu  
                     435

<210> 391

<211> 34

<212> PRT

<213> Homo sapiens

<400> 391

Cys Lys Trp Val Gln Asn Gly Gly His Pro Asn Val Glu Ser Ser Lys  
       1                    5                    10                    15

Tyr His Cys His Glu Pro Lys Ala Ser Leu Tyr Thr Leu Glu Glu Ser  
                     20                    25                    30

Thr Leu

<210> 392

<211> 28

<212> PRT

<213> Homo sapiens

<400> 392

Leu Leu Leu Cys Lys Phe Lys Lys Val Asn Tyr Phe Leu Lys Val Leu  
       1                    5                    10                    15

Ile Ser Asn Phe Ser Ile Trp Ala Tyr Asp His His  
                     20                    25

<210> 393

<211> 36

<212> PRT

<213> Homo sapiens

<400> 393

Met Ala Gly His Pro Thr Leu Ile Leu Leu Cys Lys Trp Ala Phe His  
       1                    5                    10                    15

Leu Thr Gly Ala Ile Cys Glu Pro Tyr Leu Asn Gln Thr Leu Pro Thr  
                     20                    25                    30

Gln Ala Cys Leu  
                     35

<210> 394

<211> 36  
 <212> PRT  
 <213> Homo sapiens

<400> 394  
 Met Ala Gly His Pro Thr Leu Ile Leu Leu Cys Lys Trp Ala Phe His  
           1                          5                          10                          15  
 Leu Thr Gly Ala Ile Cys Glu Pro Tyr Leu Asn Gln Thr Leu Pro Thr  
                           20                          25                          30  
 Gln Ala Cys Leu  
                           35

<210> 395  
 <211> 41  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (15)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 395  
 Met Trp Leu Met Leu Ile Leu Ser Leu Thr Ser Gly Glu Thr Xaa Ala  
           1                          5                          10                          15  
 Leu Arg Gly Cys Cys Ser Ser Ser Trp Thr Tyr Gly Glu Ser Ala Ala  
                           20                          25                          30  
 Gly Pro Ala Asp Gln Ala Pro Cys Leu  
                           35                          40

<210> 396  
 <211> 41  
 <212> PRT  
 <213> Homo sapiens

<400> 396  
 Met Trp Leu Met Leu Ile Leu Ser Leu Thr Ser Gly Glu Thr Glu Ala  
           1                          5                          10                          15  
 Leu Arg Gly Cys Cys Ser Ser Ser Trp Thr Tyr Gly Glu Ser Ala Ala  
                           20                          25                          30  
 Gly Pro Ala Asp Gln Ala Pro Cys Leu  
                           35                          40

<210> 397  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

&lt;400&gt; 397

Ile Phe Ala Leu Ser Leu Ser Phe Tyr Thr Cys Ile His Ile His Thr  
 1 5 10 15  
 His Arg His Thr  
 20

&lt;210&gt; 398

&lt;211&gt; 117

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 398

Met Cys Thr Leu Phe Val Leu Ala Val Leu Leu Pro Val Leu Phe Leu  
 1 5 10 15  
 Leu Tyr Arg His Arg Asn Ser Met Lys Val Phe Leu Lys Gln Gly Glu  
 20 25 30  
 Cys Ala Ser Val His Pro Lys Thr Cys Pro Val Val Leu Pro Pro Glu  
 35 40 45  
 Thr Arg Pro Leu Asn Gly Leu Gly Pro Pro Ser Thr Pro Leu Asp His  
 50 55 60  
 Arg Gly Tyr Gln Ser Leu Ser Asp Ser Pro Pro Gly Ala Arg Val Phe  
 65 70 75 80  
 Thr Glu Ser Glu Lys Arg Pro Leu Ser Ile Gln Asp Ser Phe Val Glu  
 85 90 95  
 Val Ser Pro Val Cys Pro Arg Pro Arg Val Arg Leu Gly Ser Glu Ile  
 100 105 110  
 Arg Asp Ser Val Val  
 115

&lt;210&gt; 399

&lt;211&gt; 183

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 399

Met Met Asn Val Ser Lys Ile Ser Phe Phe Ala Met Phe Leu Met Tyr  
 1 5 10 15  
 Leu Leu Ala Ala Leu Phe Gly Tyr Leu Thr Phe Tyr Glu His Val Glu  
 20 25 30  
 Ser Glu Leu Leu His Thr Tyr Ser Ser Ile Leu Gly Thr Asp Ile Leu  
 35 40 45  
 Leu Leu Ile Val Arg Leu Ala Val Leu Met Ala Val Thr Leu Thr Val  
 50 55 60  
 Pro Val Val Ile Phe Pro Ile Arg Ser Ser Val Thr His Leu Leu Cys

65		70		75		80
Ala Ser Lys Asp Phe Ser Trp Trp Arg His Ser Leu Ile Thr Val Ser						
	85			90		95
Ile Leu Ala Phe Thr Asn Leu Leu Val Ile Phe Val Pro Thr Ile Arg						
	100		105			110
Asp Ile Phe Gly Phe Ile Gly Ala Ser Ala Ala Ser Met Leu Ile Phe						
	115		120			125
Ile Leu Pro Ser Ala Phe Tyr Ile Lys Leu Val Lys Lys Glu Pro Met						
	130		135			140
Lys Ser Val Gln Lys Ile Gly Ala Leu Phe Phe Leu Leu Ser Gly Val						
	145		150		155	160
Leu Val Met Thr Gly Ser Met Ala Leu Ile Val Leu Asp Trp Val His						
		165		170		175
Asn Ala Pro Gly Gly Gly His						
	180					

<210> 400  
 <211> 38  
 <212> PRT  
 <213> Homo sapiens

<400> 400
Met Val Ser Lys His Ser Leu Asn Leu His Phe Phe Tyr Trp Lys Gly
1 5 10 15
Gly Cys Ala Cys Phe Thr Ser Glu Pro Arg Val Phe Val Val Val Glu
20 25 30
Leu Ser Leu Leu Asp Cys
35

<210> 401  
 <211> 38  
 <212> PRT  
 <213> Homo sapiens

<400> 401
Met Val Ser Lys His Ser Leu Asn Leu His Phe Phe Tyr Trp Lys Gly
1 5 10 15
Gly Cys Ala Cys Phe Thr Ser Glu Pro Arg Val Phe Val Val Val Glu
20 25 30
Leu Ser Leu Leu Asp Cys
35

<210> 402

<211> 92  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (10)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (49)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 402  
 Ile Gly Pro Leu Leu Val Tyr Val Ser Xaa Thr His Glu Ser Leu Lys  
   1                  5                  10                  15  
 Leu Trp Gln Leu Lys Glu Thr Leu Ile Gln Ser Phe Pro Ala Leu Val  
                   20                  25                  30  
 Arg Ser Leu Gly Pro Gly Leu Leu Phe Gly Pro Pro Ile Ala Thr Gly  
           35                  40                  45  
 Xaa Thr Gln Ala Gly Asp Met Ala Asp Lys Ser Gln Ala Gly Pro Arg  
   50                  55                  60  
 Gly Ser Val Ser Ser Val Ala Trp Gly Pro Phe Pro Gly Gly Ser Gly  
   65                  70                  75                  80  
 Ala Leu Ala Phe Cys Pro Leu Ile Leu Arg Ser His  
                   85                  90

<210> 403  
 <211> 24  
 <212> PRT  
 <213> Homo sapiens

<400> 403  
 Met His Ile Phe Thr Ile Leu Tyr Pro Ile Ser Glu Gly Phe Phe Lys  
   1                  5                  10                  15  
 Ile Phe Asn Phe Ile Val Phe Phe  
                   20

<210> 404  
 <211> 69  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (1)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 404

Xaa Ser Gly Asp Leu Pro Thr Ser Ala Phe Pro Lys Cys Trp Asp Tyr  
 1 5 10 15  
 Arg Pro Glu Pro Pro Cys Pro Ala Gln Ala Gln Thr Ser Val Leu Cys  
 20 25 30  
 Val Thr Ser Trp Ser Arg Leu Thr Val Ser Thr Leu Thr Ser Thr Ser  
 35 40 45  
 Gln Ala Glu Gly Val Arg Ala Leu Pro Ile Trp Pro Ser Ser Gln Val  
 50 55 60  
 Cys Ser Ile Gln Pro  
 65

<210> 405  
 <211> 110  
 <212> PRT  
 <213> Homo sapiens

<400> 405  
 Ser Gln Gln Thr Leu Leu Ile Arg Pro Cys Cys Asn Lys Gln Thr Pro  
 1 5 10 15  
 Ile Thr Asn His Pro His Cys Thr Gly Gly Gly His Gly Lys His Lys  
 20 25 30  
 Gln Thr Leu Pro Thr Pro Ser Cys Asn Lys Arg His Lys Val Ile Cys  
 35 40 45  
 Ser Lys Ile Asn Gln Gln Thr Thr Pro Gly Cys Gly His Thr Lys Glu  
 50 55 60  
 Leu His Gln Thr Pro Leu Pro Asn Ile Asn Pro Ser Phe Cys Lys Leu  
 65 70 75 80  
 Gly Ala Thr Ser Ser Leu Thr Val Lys Gly Ala Ala Ser Arg Leu Ile  
 85 90 95  
 Lys Ser Tyr Leu Pro Lys Lys Lys Lys Lys Lys Asn Ser Arg  
 100 105 110

<210> 406  
 <211> 79  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (67)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 406  
 Met Val Phe Phe Gln Ile Gln Ser Leu Leu Ser Phe Leu Ala Ser Ser  
 1 5 10 15



Leu Ser Ile Ile Phe Leu Leu Pro Arg Cys Leu Ile Pro Pro Ala Asn  
                   20                  25                  30

Gly Thr Ala Gly Ser Ser Cys Ser Glu Phe Gln Thr Leu His Thr Phe  
                   35                  40                  45

His Pro Gln Ala Ser Cys Ala His Ala Gly Pro Ser Asn Leu Tyr Thr  
                   50                  55                  60

Phe Leu Xaa Leu Phe Asp Leu Ser Ala Lys Val Ser Pro Leu Met  
                   65                  70                  75

<210> 407  
 <211> 79  
 <212> PRT  
 <213> Homo sapiens

<400> 407  
 Met Val Phe Phe Gln Ile Gln Ser Leu Leu Ser Phe Leu Ala Ser Ser  
           1                  5                  10                  15

Leu Ser Ile Ile Phe Leu Leu Pro Arg Cys Leu Ile Pro Pro Ala Asn  
                   20                  25                  30

Gly Thr Ala Gly Ser Ser Cys Ser Glu Phe Gln Thr Leu His Thr Phe  
                   35                  40                  45

His Pro Gln Ala Ser Cys Ala His Ala Gly Pro Ser Asn Leu Tyr Thr  
                   50                  55                  60

Phe Leu Arg Leu Phe Asp Leu Ser Ala Lys Val Ser Pro Leu Met  
                   65                  70                  75

<210> 408  
 <211> 325  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (10)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (136)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (186)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (234)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 408

Val	Pro	Pro	Ala	Val	Cys	Pro	Ala	Gly	Xaa	Phe	Cys	Gln	Asn	Gln	Cys	1	5	10	15
Phe	Thr	Lys	Arg	Gln	Tyr	Pro	Glu	Thr	Lys	Ile	Ile	Lys	Thr	Asp	Gly	20	25	30	
Lys	Gly	Trp	Gly	Leu	Val	Ala	Lys	Arg	Asp	Ile	Arg	Lys	Gly	Glu	Phe	35	40	45	
Val	Asn	Glu	Tyr	Val	Gly	Glu	Leu	Ile	Asp	Glu	Glu	Glu	Cys	Met	Ala	50	55	60	
Arg	Ile	Lys	His	Ala	His	Glu	Asn	Asp	Ile	Thr	His	Phe	Tyr	Met	Leu	65	70	75	80
Thr	Ile	Asp	Lys	Asp	Arg	Ile	Ile	Asp	Ala	Gly	Pro	Lys	Gly	Asn	Tyr	85	90	95	
Ser	Arg	Phe	Met	Asn	His	Ser	Cys	Gln	Pro	Asn	Cys	Glu	Thr	Leu	Lys	100	105	110	
Trp	Thr	Val	Asn	Gly	Asp	Thr	Arg	Val	Gly	Leu	Phe	Ala	Val	Cys	Asp	115	120	125	
Ile	Pro	Ala	Gly	Thr	Glu	Leu	Xaa	Phe	Asn	Tyr	Asn	Leu	Asp	Cys	Leu	130	135	140	
Gly	Asn	Glu	Lys	Thr	Val	Cys	Arg	Cys	Gly	Ala	Ser	Asn	Cys	Ser	Gly	145	150	155	160
Phe	Leu	Gly	Asp	Arg	Pro	Lys	Thr	Ser	Thr	Thr	Leu	Ser	Ser	Glu	Glu	165	170	175	
Lys	Gly	Lys	Lys	Thr	Lys	Lys	Lys	Thr	Xaa	Arg	Arg	Arg	Ala	Lys	Gly	180	185	190	
Glu	Gly	Lys	Arg	Gln	Ser	Glu	Asp	Glu	Cys	Phe	Arg	Cys	Gly	Asp	Gly	195	200	205	
Gly	Gln	Leu	Val	Leu	Cys	Asp	Arg	Lys	Phe	Cys	Thr	Lys	Ala	Tyr	His	210	215	220	
Leu	Ser	Cys	Leu	Gly	Leu	Gly	Lys	Arg	Xaa	Phe	Gly	Lys	Trp	Glu	Cys	225	230	235	240
Pro	Trp	His	His	Cys	Asp	Val	Cys	Gly	Lys	Pro	Ser	Thr	Ser	Phe	Cys	245	250	255	
His	Leu	Cys	Pro	Asn	Ser	Phe	Cys	Lys	Glu	His	Gln	Asp	Gly	Thr	Ala	260	265	270	
Phe	Ser	Cys	Thr	Pro	Asp	Gly	Arg	Ser	Tyr	Cys	Cys	Glu	His	Asp	Leu	275	280	285	
Gly	Ala	Ala	Ser	Val	Arg	Ser	Thr	Lys	Thr	Glu	Lys	Pro	Pro	Pro	Glu	290	295	300	

Pro Gly Lys Pro Lys Gly Lys Arg Arg Arg Arg Arg Gly Trp Arg Arg  
 305 310 315 320

Val Thr Glu Gly Lys  
 325

<210> 409

<211> 161

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (123)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (129)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (145)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (146)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (157)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 409

Met Thr Thr Trp Ser Cys Leu Val Ala Met Ile Val Ser Gly Val Ile  
 1 5 10 15

Thr Ala Val Trp Ala Val Arg Ala Ala Pro Ile Trp Arg Ser Gln Val  
 20 25 30

Lys Gln Lys Met Arg Ile Gly Lys Gln Gly Asn Cys Arg Pro Pro Arg  
 35 40 45

Cys Ile Cys Ser Ala Leu Gly Leu Leu Ala Pro Trp Met Ala Val Val  
 50 55 60

Leu Ser Gln Leu Ser Val Arg Cys Val Val Ser Trp Val Gln Gly Lys  
 65 70 75 80

Pro Ser Ser Pro Arg Pro Arg Gly Ser Ala Ala Ser Pro Ala Pro Gly  
 85 90 95

Ala Thr Pro Pro Thr Pro Arg Lys Pro Val Ser Trp Leu Gly Tyr Arg  
 100 105 110

Glu Asn His Arg Pro Lys Lys Pro Lys Ser Xaa Thr Arg Cys Leu Val  
 115 120 125

Xaa Gln Asn Trp Ser Leu Pro Pro Ile Ser Lys Asp Arg Thr Ala Gly  
 130 135 140

Xaa Xaa Asp Thr Asn Arg Thr Arg Arg Ser Gly Leu Xaa Leu Arg Leu  
 145 150 155 160

Gly

<210> 410  
 <211> 57  
 <212> PRT  
 <213> Homo sapiens

<400> 410  
 Arg Pro Val Ser Thr Lys Lys Lys Lys Val Ser Trp Ala Trp Trp Cys  
 1 5 10 15

Thr Ser Ile Ala Pro Ala Thr Leu Glu Ala Lys Val Arg Gly Leu Leu  
 20 25 30

Glu Pro Gly Arg Ser Val Ser Ala Val Ser Cys Asp Pro Ala Asn Ala  
 35 40 45

Leu Ser Leu Gly Ser Val Arg Pro Cys  
 50 55

<210> 411  
 <211> 58  
 <212> PRT  
 <213> Homo sapiens

<400> 411  
 Val Leu Cys Leu Gln Ile Tyr Cys Gln Thr Arg Phe Ser Ser Ser Leu  
 1 5 10 15

Ser Thr Ser Phe Thr Val Leu Asn Cys Met Tyr Arg Ser Val Ile Leu  
 20 25 30

Ser Glu Leu Thr Phe Val Lys Asp Lys Arg Ser Val Leu Asp Arg Tyr  
 35 40 45

Phe Pro Phe Ala Cys Gly Cys Pro Ala Pro  
 50 55

<210> 412  
 <211> 141  
 <212> PRT  
 <213> Homo sapiens

<400> 412

Met Lys Ser Thr Leu Ser Ile Phe Ser Leu Trp Val Met Ile Phe Val  
 1 5 10 15

Leu Cys Leu Gln Ile Tyr Cys Gln Thr Arg Phe Ser Ser Ser Leu Ser  
 20 25 30

Thr Ser Phe Thr Val Leu Asn Cys Met Tyr Arg Ser Val Ile Leu Ser  
 35 40 45

Glu Leu Thr Phe Val Lys Asp Lys Arg Ser Val Leu Asp Arg Leu Phe  
 50 55 60

Phe Leu Leu His Val Val Val Gln His His Glu Asp Ser Ser Phe Ser  
 65 70 75 80

Thr Glu Leu Ser Leu Tyr Phe Cys Gln Arg Ser Asp Leu Pro Leu Lys  
 85 90 95

Ser Leu Ser Asn Leu Ser Thr Ser His His Leu His Phe Gln Ser Leu  
 100 105 110

Arg Thr Arg Gly Arg Thr Arg Gly Ser Thr Arg Glu Phe Arg Thr Gly  
 115 120 125

Thr Cys Arg Arg Thr Ser Phe Pro Tyr Ser Glu Ser Tyr  
 130 135 140

&lt;210&gt; 413

&lt;211&gt; 141

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 413

Met Lys Ser Thr Leu Ser Ile Phe Ser Leu Trp Val Met Ile Phe Val  
 1 5 10 15

Leu Cys Leu Gln Ile Tyr Cys Gln Thr Arg Phe Ser Ser Ser Leu Ser  
 20 25 30

Thr Ser Phe Thr Val Leu Asn Cys Met Tyr Arg Ser Val Ile Leu Ser  
 35 40 45

Glu Leu Thr Phe Val Lys Asp Lys Arg Ser Val Leu Asp Arg Leu Phe  
 50 55 60

Phe Leu Leu His Val Val Val Gln His His Glu Asp Ser Ser Phe Ser  
 65 70 75 80

Thr Glu Leu Ser Leu Tyr Phe Cys Gln Arg Ser Asp Leu Pro Leu Lys  
 85 90 95

Ser Leu Ser Asn Leu Ser Thr Ser His His Leu His Phe Gln Ser Leu  
 100 105 110

Gln Ala Thr Ile Leu Ser Cys Leu Ile Ile Ala Val Val Leu Thr Gly  
 115 120 125

Leu Ala Leu Ser Val Asp Pro Cys Phe Ile His Arg Ile

130

135

140

<210> 414  
<211> 57  
<212> PRT  
<213> Homo sapiens

<400> 414  
Met Leu Glu Thr Leu Ser Gln Phe Ile Ser Ile Leu Phe Val Leu Leu  
1 5 10 15  
Trp Ile Ile Ser Asp Leu Ile Leu Cys Phe Leu Lys Cys Gly Asn Pro  
20 25 30  
Gly Thr Leu Asp Met Val Leu Pro Ile Trp Thr Asn Gln Tyr Ile His  
35 40 45  
Ser Ser Arg Ser Ile Leu Ser Phe Ile  
50 55

<210> 415  
<211> 57  
<212> PRT  
<213> Homo sapiens

<400> 415  
Met Leu Glu Thr Leu Ser Gln Phe Ile Ser Ile Leu Phe Val Leu Leu  
1 5 10 15  
Trp Ile Ile Ser Asp Leu Ile Leu Cys Phe Leu Lys Cys Gly Asn Pro  
20 25 30  
Gly Thr Leu Asp Met Val Leu Pro Ile Trp Thr Asn Gln Tyr Thr His  
35 40 45  
Ser Ser Arg Ser Ile Leu Ser Phe Ile  
50 55

<210> 416  
<211> 85  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (14)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (59)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

&lt;221&gt; SITE

&lt;222&gt; (68)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 416

Leu Leu Phe Leu Leu Gly Met Ala Trp Phe Asn Asp Trp Xaa Ala Ala  
 1 5 10 15

Leu Tyr Met Pro Ala Phe Cys Ala Ile Leu Val Ala Leu Phe Ala Phe  
 20 25 30

Ala Met Met Arg Asp Thr Pro Gln Ser Cys Gly Leu Pro Pro Ile Glu  
 35 40 45

Glu Tyr Lys Asn Asp Tyr Pro Asp Asp Tyr Xaa Glu Lys Ala Glu Gln  
 50 55 60

Glu Leu Thr Xaa Lys Gln Pro Gly Gly Arg Arg Leu Trp Leu His Pro  
 65 70 75 80

Ala Tyr Thr Ala Ala  
 85

&lt;210&gt; 417

&lt;211&gt; 66

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 417

Met Leu Phe Met Gly Phe Val Pro Trp Ala Thr Ser Ser Ile Ala Val  
 1 5 10 15

Met Phe Val Leu Leu Phe Leu Cys Gly Trp Phe Gln Gly Met Gly Trp  
 20 25 30

Pro Pro Cys Gly Arg Thr Met Val His Trp Trp Ser Gln Lys Glu Arg  
 35 40 45

Gly Gly Ile Val Ser Val Trp Asn Cys Ala His Asn Val Gly Gly Trp  
 50 55 60

Val Phe  
 65

&lt;210&gt; 418

&lt;211&gt; 152

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 418

Met Leu Phe Met Gly Phe Val Pro Trp Ala Thr Ser Ser Ile Ala Val  
 1 5 10 15

Met Phe Val Leu Leu Phe Leu Cys Gly Trp Phe Gln Gly Met Gly Trp  
 20 25 30

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<210> 419
<211> 85
<212> PRT
<213> Homo sapiens
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<210> 420  
<211> 85  
<212> PRT  
<213> Homo sapiens
```

226



Ser His Leu Leu Arg Thr Phe Phe Leu Val Trp Phe Val Gly Leu Pro  
                     20                    25                    30

Val Ala Ile Leu Gly Asn Leu Leu Glu Cys Tyr Ala Asn Val Phe Thr  
                     35                    40                    45

Gly Asn Gly Gly Gly Pro Glu Pro Trp Gly Gly His Leu Val Ser Glu  
                     50                    55                    60

Cys Leu Ala Leu Pro Gln Leu Gly Ile Gln Tyr Leu Ala Leu Ser Gly  
                     65                    70                    75                    80

Gly Ile Ile Trp Leu  
                                     85

<210> 421  
 <211> 64  
 <212> PRT  
 <213> Homo sapiens

<400> 421  
 Met Trp Glu Thr Tyr Ile Trp Leu Val Leu Thr Phe Ala Gln Lys Ala  
   1                                    5                                    10                                    15

Cys Cys Met Lys Leu Thr Ala Thr Met Leu Lys Gln Ile His Ile Lys  
                     20                    25                    30

Lys Cys Arg Ser Ile Gln Trp Leu Leu Arg Val Asn Ser Phe Met Glu  
                     35                    40                    45

Ser Ser Met Ser Leu Ser Ser Lys Ile Arg Pro His Gln Arg Arg Asn  
                     50                    55                    60

<210> 422  
 <211> 64  
 <212> PRT  
 <213> Homo sapiens

<400> 422  
 Met Trp Glu Thr Tyr Ile Trp Leu Val Leu Thr Phe Ala Gln Lys Ala  
   1                                    5                                    10                                    15

Cys Cys Met Lys Leu Thr Ala Thr Met Leu Lys Gln Ile His Ile Lys  
                     20                    25                    30

Lys Cys Arg Ser Ile Gln Trp Leu Leu Arg Val Asn Ser Phe Met Glu  
                     35                    40                    45

Ser Ser Met Ser Leu Ser Ser Lys Ile Arg Pro His Gln Arg Arg Asn  
                     50                    55                    60

<210> 423  
 <211> 47  
 <212> PRT  
 <213> Homo sapiens

<400> 423  
 Ser Gln Leu Leu Arg Lys Leu Arg Trp Glu Asp Gly Leu Ser Leu Gly  
           1                  5                  10                  15  
 Gly Arg Val Cys Ser Glu Pro Arg Leu His His Cys Thr Pro Ala Trp  
                   20                  25                  30  
 Val Ile Gly Pro Gly Leu Val Leu Thr Thr Thr Thr Glu Lys Lys  
                   35                  40                  45

<210> 424  
 <211> 54  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (4)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (23)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 424  
 Ile Glu Thr Xaa Arg Phe Gly Gly Lys Gln Met Glu Leu Gln Glu Ile  
           1                  5                  10                  15  
 Lys Ser Ile Ile Ser Ser Xaa Met Trp Trp Leu Met Pro Leu Ile Leu  
                   20                  25                  30  
 Val Thr Gln Glu Ala Glu Ala Gly Gly Ser Leu Glu Ala Arg Ser Leu  
           35                  40                  45  
 Arg Pro Pro Trp Ala Thr  
           50

<210> 425  
 <211> 199  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (195)  
 <223> Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 425

Lys Ala Gly Thr Pro Ala Gly Thr Gly Pro Glu Phe Pro Gly Arg Pro  
 1 5 10 15

Thr Arg Pro Ile Tyr Ile Arg Arg Tyr Val Phe Lys Leu Gly Val Leu  
 20 25 30

Gly Trp Gly Ala Pro Ala Leu Leu Val Leu Leu Ser Leu Ser Val Lys  
 35 40 45

Ser Ser Val Tyr Gly Pro Cys Thr Ile Pro Val Phe Asp Ser Trp Glu  
 50 55 60

Asn Gly Thr Gly Phe Gln Asn Met Ser Ile Cys Trp Val Arg Ser Pro  
 65 70 75 80

Val Val His Ser Val Leu Val Met Gly Tyr Gly Gly Leu Thr Ser Leu  
 85 90 95

Phe Asn Leu Val Val Leu Ala Trp Ala Leu Trp Thr Leu Arg Arg Leu  
 100 105 110

Arg Glu Arg Ala Asp Ala Pro Ser Val Arg Ala Cys His Asp Thr Val  
 115 120 125

Thr Val Leu Gly Leu Thr Val Leu Leu Gly Thr Thr Trp Ala Leu Ala  
 130 135 140

Phe Phe Ser Phe Gly Val Phe Leu Leu Pro Gln Leu Phe Leu Phe Thr  
 145 150 155 160

Ile Leu Asn Ser Leu Tyr Gly Phe Phe Leu Phe Leu Trp Phe Cys Ser  
 165 170 175

Gln Arg Cys Arg Ser Glu Ala Glu Ala Lys Ala Gln Ile Glu Ala Phe  
 180 185 190

Ser Ser Xaa Gln Thr Thr Gln  
 195

&lt;210&gt; 426

&lt;211&gt; 160

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (133)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (146)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 426

Met Ser Ser Leu Ala Ser Trp Trp Pro Ser Tyr Gly Arg Thr Gln Met

1	5	10	15
Asn Ser Arg Ala Ser Val Ala Gly Pro Ser Trp Leu Phe Cys Ser Ala	20	25	30
Pro Phe Pro His Cys Leu Ser Tyr Arg Ser His Cys Ser Ser Ser Cys	35	40	45
Leu Thr Arg Pro Pro Gly Ala Trp Gln Arg Cys Ala Ser Thr Ser Cys	50	55	60
Trp Gly Pro Trp Ser Ser Arg Ser Trp Pro Arg Gly Pro Leu Gly Pro	65	70	75
Thr Pro Arg Pro Ser Trp Ser Gly Trp Pro Asp Gly Gly Gly Ala Ala	85	90	95
Trp Arg Trp Met Cys Ser Pro Ser Ala Arg Ser Ala Thr Arg Pro Arg	100	105	110
Trp Ser Leu Gly Pro Pro Gly Ser Ser Trp Leu Gly Gly Ser Cys Arg	115	120	125
Ala Glu Ala Trp Xaa Arg Leu Pro Gly Ala Gly Leu Cys His Cys Thr	130	135	140
Pro Xaa Thr His Gly Arg Thr Trp Leu Ala Ala Thr Leu Cys Trp Thr	145	150	155
			160

&lt;210&gt; 427

&lt;211&gt; 13

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 427

Trp Pro Ser Ser Ser Arg Thr Leu Ser Ser Ser Arg Arg
1 5 10

&lt;210&gt; 428

&lt;211&gt; 47

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 428

Ile Leu Lys Ser Glu Pro Lys Leu Val Ser Phe Ile Asn Ile Leu Gly	1	5	10	15
Lys Glu Glu Arg Lys Lys Glu Gly Gly Arg Glu Arg Lys Lys Glu Arg	20	25	30	
Lys Lys Glu Arg Lys Lys Glu Arg Lys Lys Lys Lys Lys Asn Ser	35	40	45	

<210> 429  
 <211> 80  
 <212> PRT  
 <213> Homo sapiens

<400> 429  
 Met Ser Leu Ile Trp Arg Asp Val Tyr Leu Tyr Gly Cys Gly Cys Ile  
   1                  5                  10                  15  
 Cys His Gly Arg Cys Cys Ala Gly Phe Pro Gln His Ser Arg His Val  
                   20                  25                  30  
 Trp Arg Thr Asn Ala Gly Leu Ile Leu Pro Gly Asn Arg Val Pro Phe  
           35                  40                  45  
 Cys Glu Leu Glu Gly Cys Thr Arg Arg Ser Ser Tyr Trp Asn His Leu  
   50                  55                  60  
 Val Ile Leu Gly Gly His Trp Gly Leu His Leu Pro Cys Thr Ser Leu  
   65                  70                  75                  80

<210> 430  
 <211> 80  
 <212> PRT  
 <213> Homo sapiens

<400> 430  
 Met Ser Leu Ile Trp Arg Asp Val Tyr Leu Tyr Gly Cys Gly Cys Ile  
   1                  5                  10                  15  
 Cys His Gly Arg Cys Cys Ala Gly Phe Pro Gln His Ser Arg His Val  
                   20                  25                  30  
 Trp Arg Thr Asn Ala Gly Leu Ile Leu Pro Gly Asn Arg Val Pro Phe  
           35                  40                  45  
 Cys Glu Leu Glu Gly Cys Thr Arg Arg Ser Ser Tyr Trp Asn His Leu  
   50                  55                  60  
 Val Ile Leu Gly Gly His Trp Gly Leu His Leu Pro Cys Thr Ser Leu  
   65                  70                  75                  80

<210> 431  
 <211> 107  
 <212> PRT  
 <213> Homo sapiens

<220>

&lt;221&gt; SITE

&lt;222&gt; (7)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (13)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (17)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 431

Leu Gly Lys Val Gly Asn Xaa Cys Arg Tyr Arg Ser Xaa Ile Pro Gly  
 1 5 10 15

Xaa Thr His Ala Ser Gly Leu Glu Ser Thr Phe Glu Leu Pro Glu Glu  
 20 25 30

Phe Arg Phe Leu Leu Val Ser Phe Val Phe Gln Thr His Glu Met Ala  
 35 40 45

Thr Asp Asp Lys Thr Ser Pro Thr Leu Asp Ser Ala Asn Asp Leu Pro  
 50 55 60

Arg Ser Pro Thr Ser Ser Ser His Leu Thr His Phe Lys Pro Leu Thr  
 65 70 75 80

Pro Asp Gln Asp Glu Pro Pro Phe Lys Ser Ala Tyr Ser Ser Phe Val  
 85 90 95

Asn Leu Phe Arg Phe Asn Lys Gly Lys Thr Tyr  
 100 105

&lt;210&gt; 432

&lt;211&gt; 46

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 432

Met Cys Cys Arg Ala Ile Ser Gly Cys Cys Gly Thr Cys Leu Ala Cys  
 1 5 10 15

Leu Cys Ser Thr Ala Ser Gly Ala Pro Gln Pro Trp Pro Cys Ser Arg  
 20 25 30

Gln Ser Thr Trp Arg Leu Ile Pro Arg Pro Ser Ala Pro Thr  
 35 40 45

&lt;210&gt; 433

&lt;211&gt; 43

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

<220>  
 <221> SITE  
 <222> (5)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (35)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (36)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 433  
 Ser Gly Phe Val Xaa Ala Trp Ser Ile Leu Thr Pro Gly Cys Ile Ser  
           1                  5                  10                  15  
 Pro Ala Gly Glu Lys Cys Arg Gly Gly Lys Gln Ser Leu Gly Thr Asn  
                   20                  25                  30  
 Tyr Phe Xaa Xaa Val Leu Leu Ala Thr Asp Ser  
           35                  40

<210> 434  
 <211> 76  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (73)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 434  
 Met His Leu Pro Leu Ser Thr Lys Gly Ile Leu Pro Arg Ile Leu Leu  
           1                  5                  10                  15  
 Leu Phe Ile Lys Thr Leu Phe Ala Phe Leu Leu Ser Asp Gln Cys Lys  
                   20                  25                  30  
 Gly Leu Ala His Leu Trp Leu Arg Arg Arg Glu Cys Gly Pro Gly Gly  
           35                  40                  45  
 Leu Thr Cys Ala Ala Glu Glu Leu Lys Ser Tyr Thr Ser Ile Phe Ala  
           50                  55                  60  
 Pro Lys Leu Gly Val Val Gly Gly Xaa Glu Met Lys  
           65                  70                  75

<210> 435  
 <211> 38  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (12)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (14)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (38)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 435  
 Pro Ile Ser Thr Lys Asn Arg Lys Ile Ser Arg Xaa Trp Xaa Cys Val  
           1                  5                  10                  15

Pro Val Ile Pro Ala Thr Arg Glu Ala Glu Ala Gly Glu Ser Leu Glu  
                   20                  25                  30

Pro Arg Arg Trp Arg Xaa  
                   35

<210> 436  
 <211> 74  
 <212> PRT  
 <213> Homo sapiens

<400> 436  
 Leu Tyr Gly Lys Ser Lys Thr Glu Val Lys Ile Ser Pro Val Ser Asn  
           1                  5                  10                  15

Leu His Ser Phe Arg Leu Gln Gly Val Ser Leu Tyr Val Glu Ala Gly  
                   20                  25                  30

Ser Leu Val Glu Phe Gln Gly Ser Lys Arg Gly Thr Asn Ile Cys Arg  
           35                  40                  45

Phe Cys Leu Leu Trp Gly Asn Ser Phe Asn His Gln Glu Asn Ser Ser  
           50                  55                  60

Ile Gly Phe Ile Cys Ser Gly Leu Pro Arg  
           65                  70

<210> 437  
 <211> 58  
 <212> PRT  
 <213> Homo sapiens

<400> 437  
 Met Ala Trp Ser Arg Ala Ala Trp Thr Val Met Arg Ser Leu Leu Ile  
           1                  5                  10                  15

Cys Trp Leu Val Ser Ala Tyr Ile Leu Ala Thr Val Thr Asp Val Gln



20 25 30  
 Gly Ser His Ile Gly Ile Pro Gly Ser Leu Leu Glu Leu Arg His His  
 35 40 45

Pro Arg Ser Asn Glu Ser Glu Ser Ala Cys  
 50 55

<210> 438

<211> 58

<212> PRT

<213> Homo sapiens

<400> 438

Met Ala Trp Ser Arg Ala Ala Trp Thr Val Met Arg Ser Leu Leu Ile  
 1 5 10 15

Cys Trp Leu Val Ser Ala Tyr Ile Leu Ala Thr Val Thr Asp Val Gln  
 20 25 30

Gly Ser His Ile Gly Ile Pro Gly Ser Leu Leu Glu Leu Arg His His  
 35 40 45

Pro Arg Ser Asn Glu Ser Glu Ser Ala Cys  
 50 55

<210> 439

<211> 14

<212> PRT

<213> Homo sapiens

<400> 439

Trp Arg Arg Gln Ala Arg Val Glu Ser Leu Leu Pro Met Leu  
 1 5 10

<210> 440

<211> 60

<212> PRT

<213> Homo sapiens

<400> 440

Met Trp Asp Leu Ser Pro Ser Thr Leu Ser Leu Leu Leu Leu Ser  
 1 5 10 15

Pro Cys Asp Val Pro Ala Leu Ala Leu Pro Ser Ala Met Ser Lys Ser  
 20 25 30

Leu Leu Ser Leu Leu Arg Ser Arg Cys Cys His Ala Ser Trp Thr Ala  
 35 40 45

Cys Arg Thr Val Asn Gln Leu Asn Leu Phe Ser Leu  
 50 55 60

<210> 441  
 <211> 6  
 <212> PRT  
 <213> Homo sapiens

<400> 441  
 Pro Cys Asp Val His Phe  
 1 5

<210> 442  
 <211> 60  
 <212> PRT  
 <213> Homo sapiens

<400> 442  
 Met Trp Asp Leu Ser Pro Ser Thr Leu Ser Leu Leu Leu Leu Ser  
 1 5 10 15

Pro Cys Asp Val Pro Ala Leu Ala Leu Pro Ser Ala Met Ser Lys Ser  
 20 25 30

Leu Leu Ser Leu Leu Arg Ser Arg Cys Cys His Ala Ser Trp Thr Ala  
 35 40 45

Cys Arg Thr Val Asn Gln Leu Asn Leu Phe Ser Leu  
 50 55 60

<210> 443  
 <211> 52  
 <212> PRT  
 <213> Homo sapiens

<400> 443  
 Met Val Glu His Leu His Leu Thr Tyr His Tyr Leu Lys Leu Pro Cys  
 1 5 10 15

Ile Phe Ala Cys Leu Leu Leu Tyr Trp Phe Ser Pro Leu Leu Asn Ser  
 20 25 30

Lys Leu Gln Asp Ser Arg Asp Leu Val Cys Phe Leu Asn Gln Trp His  
 35 40 45

Thr Val Cys Ala  
 50

<210> 444  
 <211> 8  
 <212> PRT  
 <213> Homo sapiens

<400> 444  
 Pro Cys Cys Phe Leu Cys Leu Val  
 1 5

&lt;210&gt; 445

&lt;211&gt; 87

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 445

Pro Cys Cys Phe Leu Cys Leu Val Cys Ser Ser Ser Asp Ser His Lys  
 1 5 10 15

Ala Ser Ser Ser Ser Ser Pro Thr Leu Ser Thr Pro Leu Pro Cys Leu  
 20 25 30

Phe Ser Ser His Thr Ser Leu Leu Arg Asn Phe His Ile Ala Ser Leu  
 35 40 45

Leu Leu Thr Pro Pro Gln Ala Pro Gln Gly Trp Ala Phe Pro Ala Ser  
 50 55 60

Leu Thr Ala Ala Ala Leu Val Pro Gly Pro Val Pro Gly Thr Gln Leu  
 65 70 75 80

Val Ala Arg Met Leu Ile Thr  
 85

&lt;210&gt; 446

&lt;211&gt; 52

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 446

Met Val Glu His Leu His Leu Thr Tyr His Tyr Leu Lys Leu Pro Cys  
 1 5 10 15

Ile Phe Ala Cys Leu Leu Leu Tyr Trp Phe Ser Pro Leu Leu Asn Ser  
 20 25 30

Lys Leu Gln Asp Ser Arg Asp Leu Val Cys Phe Leu Asn Gln Trp His  
 35 40 45

Thr Val Cys Ala  
 50

&lt;210&gt; 447

&lt;211&gt; 31

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 447

Met Pro Leu Ser Arg Phe Trp Leu Leu Leu Leu Phe Leu Pro Ser His  
 1 5 10 15

Ile Ser Val Leu Ser Leu Ile Arg Tyr Pro Ser Val Lys Glu Tyr  
 20 25 30

&lt;210&gt; 448

&lt;211&gt; 31

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 448

Met Pro Leu Ser Arg Phe Trp Leu Leu Leu Leu Phe Leu Pro Ser His  
1 5 10 15

Ile Ser Val Leu Ser Leu Ile Arg Tyr Pro Ser Val Lys Glu Tyr  
20 25 30

&lt;210&gt; 449

&lt;211&gt; 43

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 449

Val Gly Ala Ser Thr Ala His Gly Leu Leu Leu Pro Leu Leu His Ile  
1 5 10 15

His Gly Gly Ser Ala Asn Ser Ser Ala Pro His His Pro Asn Pro Trp  
20 25 30

Pro Gln Ala Asp Arg Ala Trp Ser His Tyr Leu  
35 40

&lt;210&gt; 450

&lt;211&gt; 43

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 450

Val Gly Ala Ser Thr Ala His Gly Leu Leu Leu Pro Leu Leu His Ile  
1 5 10 15

His Gly Gly Ser Ala Asn Ser Ser Ala Pro His His Pro Asn Pro Trp  
20 25 30

Pro Gln Ala Asp Arg Ala Trp Ser His Tyr Leu  
35 40

&lt;210&gt; 451

&lt;211&gt; 26

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (9)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 451

Gln Phe Lys Gln Tyr Arg Tyr Ala Xaa Gly Met Leu Arg Gly Pro His  
 1 5 10 15

Ile Pro Val Ser Tyr Pro Asn Met Tyr Phe  
 20 25

&lt;210&gt; 452

&lt;211&gt; 62

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (58)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (62)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 452

Met His Phe Ala Ala Pro Phe Gln Leu Gln Ser Gln Thr Phe Arg Tyr  
 1 5 10 15

Glu Val Gly Ser Val Arg Lys Ser Gln Gln Val Leu Lys Ala Val Val  
 20 25 30

Thr Ala Leu Leu Ile Pro Ala Phe Ser Ser Leu Ser Ser Lys Ala Cys  
 35 40 45

Lys Ala Ser Phe Gly Lys Lys Lys Lys Xaa Lys Gly Lys Xaa  
 50 55 60

&lt;210&gt; 453

&lt;211&gt; 58

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (37)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (40)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (47)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 453

Glu Gln Leu Leu Glu Ser Ser Leu Ser Ser Thr Ser Cys Glu Thr Leu  
 1 5 10 15

Ser Ser Tyr Ala Ser Gly Arg Trp Leu Leu Ser Pro His Thr Pro Ala  
 20 25 30

Cys Arg Val Arg Xaa Tyr Ile Xaa Gly Thr Asp Arg Met Trp Xaa Pro  
 35 40 45

Arg Ser Met Pro Ser Ala Thr Asp Ile Ala  
 50 55

&lt;210&gt; 454

&lt;211&gt; 64

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 454

Met Ser Ala Thr His Pro Val Pro Trp Ser Val Thr Thr Trp Cys Phe  
 1 5 10 15

Phe Cys Thr Trp Asn Ala Thr Cys Ser Ala Gly Pro Ser Pro Gly His  
 20 25 30

Arg Val Ser Ser Ser Thr Ala Ser Phe Ile Arg Val Ser Tyr Phe Pro  
 35 40 45

Ser Tyr Phe Ser Ser Pro Leu Ser Val Thr Cys Val Pro Val Ser Ser  
 50 55 60

&lt;210&gt; 455

&lt;211&gt; 318

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 455

Glu Ala Lys Ala Gln Phe Trp Leu Leu His Ser Tyr Leu Phe Cys His  
 1 5 10 15

Ser Ser Asn Val Pro Asp Leu Leu Arg Pro Arg Met Thr Asn Asp Ser  
 20 25 30

Glu Gly Lys Met Gly Phe Lys His Pro Lys Ile Met Gly Asn Phe Arg  
 35 40 45

Gly His Ala Leu Pro Gly Thr Phe Phe Phe Ile Ile Gly Leu Trp Trp  
 50 55 60

Cys Thr Lys Ser Ile Leu Lys Tyr Ile Cys Lys Lys Gln Lys Arg Thr  
 65 70 75 80

Cys Tyr Leu Gly Ser Lys Thr Leu Phe Tyr Arg Leu Glu Ile Leu Glu

85					90					95					
Gly	Ile	Thr	Ile	Val	Gly	Met	Ala	Leu	Thr	Gly	Met	Ala	Gly	Glu	Gln
			100					105					110		
Phe	Ile	Pro	Gly	Gly	Pro	His	Leu	Met	Leu	Tyr	Asp	Tyr	Lys	Gln	Gly
		115					120					125			
His	Trp	Asn	Gln	Leu	Leu	Gly	Trp	His	His	Phe	Thr	Met	Tyr	Phe	Phe
		130					135					140			
Phe	Gly	Leu	Leu	Gly	Val	Ala	Asp	Ile	Leu	Cys	Phe	Thr	Ile	Ser	Ser
145				150						155					160
Leu	Pro	Val	Ser	Leu	Thr	Lys	Leu	Met	Leu	Ser	Asn	Ala	Leu	Phe	Val
			165					170					175		
Glu	Ala	Phe	Ile	Phe	Tyr	Asn	His	Thr	His	Gly	Arg	Glu	Met	Leu	Asp
			180					185					190		
Ile	Phe	Val	His	Gln	Leu	Leu	Val	Leu	Val	Val	Phe	Leu	Thr	Gly	Leu
		195					200					205			
Val	Ala	Phe	Leu	Glu	Phe	Leu	Val	Arg	Asn	Asn	Val	Leu	Leu	Glu	Leu
	210						215					220			
Leu	Arg	Ser	Ser	Leu	Ile	Leu	Leu	Gln	Gly	Ser	Trp	Phe	Phe	Gln	Ile
225				230					235						240
Gly	Phe	Val	Leu	Tyr	Pro	Pro	Ser	Gly	Gly	Pro	Ala	Trp	Asp	Leu	Met
			245						250					255	
Asp	His	Glu	Asn	Ile	Leu	Phe	Leu	Thr	Ile	Cys	Phe	Cys	Trp	His	Tyr
			260					265					270		
Ala	Val	Thr	Ile	Val	Ile	Val	Gly	Met	Asn	Tyr	Ala	Phe	Ile	Thr	Trp
		275					280						285		
Leu	Val	Lys	Ser	Arg	Leu	Lys	Arg	Leu	Cys	Ser	Ser	Glu	Val	Gly	Leu
	290						295					300			
Leu	Lys	Asn	Ala	Glu	Arg	Glu	Gln	Glu	Ser	Glu	Glu	Glu	Met		
305				310					315						

&lt;210&gt; 456

&lt;211&gt; 24

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (2)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 456

Leu	Xaa	Lys	Leu	Lys	Met	Phe	Tyr	Lys	Phe	Ala	Phe	Lys	Phe	Ser	Tyr
1				5					10					15	

Glu Ala Ile Cys Lys Leu His Thr  
20

<210> 457

<211> 19

<212> PRT

<213> Homo sapiens

<400> 457

Met Val Ser Ile Leu Tyr Leu Gly Leu Phe Phe Leu Asn Ser Ser Val  
1 5 10 15

Leu Tyr Ala

<210> 458

<211> 282

<212> PRT

<213> Homo sapiens

<400> 458

Val Asn Arg Pro Ser Trp Ile Met Gly Asn Phe Arg Gly His Ala Leu  
1 5 10 15

Pro Gly Thr Phe Phe Phe Ile Ile Gly Leu Trp Trp Cys Thr Lys Ser  
20 25 30

Ile Leu Lys Tyr Ile Cys Lys Lys Gln Lys Arg Thr Cys Tyr Leu Gly  
35 40 45

Ser Lys Thr Leu Phe Tyr Arg Leu Glu Ile Leu Glu Gly Ile Thr Ile  
50 55 60

Val Gly Met Ala Leu Thr Gly Met Ala Gly Glu Gln Phe Ile Pro Gly  
65 70 75 80

Gly Pro His Leu Met Leu Tyr Asp Tyr Lys Gln Gly His Trp Asn Gln  
85 90 95

Leu Leu Gly Trp His His Phe Thr Met Tyr Phe Phe Phe Gly Leu Leu  
100 105 110

Gly Val Ala Asp Ile Leu Cys Phe Thr Ile Ser Ser Leu Pro Val Ser  
115 120 125

Leu Thr Lys Leu Met Leu Ser Asn Ala Leu Phe Val Glu Ala Phe Ile  
130 135 140

Phe Tyr Asn His Thr His Gly Arg Glu Met Leu Asp Ile Phe Val His  
145 150 155 160

Gln Leu Leu Val Leu Val Val Phe Leu Thr Gly Leu Val Ala Phe Leu  
165 170 175

Glu Phe Leu Val Arg Asn Asn Val Leu Leu Glu Leu Leu Arg Ser Ser  
180 185 190



Leu Ile Leu Leu Gln Gly Ser Trp Phe Phe Gln Ile Gly Phe Val Leu  
           195                          200                          205  
 Tyr Pro Pro Ser Gly Gly Pro Ala Trp Asp Leu Met Asp His Glu Asn  
           210                          215                          220  
 Ile Leu Phe Leu Thr Ile Cys Phe Cys Trp His Tyr Ala Val Thr Ile  
           225                          230                          235                          240  
 Val Ile Val Gly Met Asn Tyr Ala Phe Ile Thr Trp Leu Val Lys Ser  
                           245                          250                          255  
 Arg Leu Lys Arg Leu Cys Ser Ser Glu Val Gly Leu Leu Lys Asn Ala  
                           260                          265                          270  
 Glu Arg Glu Gln Glu Ser Glu Glu Glu Met  
           275                          280

<210> 459  
 <211> 19  
 <212> PRT  
 <213> Homo sapiens

<400> 459  
 Met Val Ser Ile Leu Tyr Leu Gly Leu Phe Phe Leu Asn Ser Ser Val  
   1                          5                          10                          15

Leu Tyr Ala

<210> 460  
 <211> 47  
 <212> PRT  
 <213> Homo sapiens

<400> 460  
 Met Arg Val Gln Glu Leu Leu Leu Phe Leu Val Gly Gly Gly Val Thr  
   1                          5                          10                          15

Glu Gly Cys Thr Glu Glu Val Thr Pro Leu Cys Leu Phe Leu Ala Asn  
           20                          25                          30

Asn Glu Val Leu Arg Thr Leu Thr Cys Arg Gln Ser Leu Ala Gln  
           35                          40                          45

<210> 461  
 <211> 136  
 <212> PRT  
 <213> Homo sapiens

<400> 461  
 Ser Ala Gln Ala Leu His His Pro Pro His Gln Gly Pro Pro Leu Phe  
   1                          5                          10                          15

Pro Ser Ser Ala His Pro Thr Val Pro Pro Tyr Pro Ser Gln Ala Thr  
                   20                  25                  30  
 His His Thr Thr Leu Gly Pro Gly Pro Gln His Gln Pro Ser Gly Thr  
           35                  40                  45  
 Gly Pro His Cys Pro Leu Pro Val Thr Gly Pro His Leu Gln Pro Gln  
       50                  55                  60  
 Gly Pro Asn Ser Ile Pro Thr Pro Thr Ala Ser Gly Phe Cys Pro His  
   65                  70                  75                  80  
 Pro Gly Ser Val Ala Leu Pro Trp Gly Phe Lys Asp Leu Ser Arg His  
                   85                  90                  95  
 Leu Gln Cys Leu Asp Arg Phe Gln Phe Thr Glu His Arg Cys His Gln  
           100                  105                  110  
 His Phe Lys Thr Ile Thr Met Gly Gln Gly Gly Ile Lys Met Asp Ser  
       115                  120                  125  
 Lys Asn Ile Phe Leu Asn Val Leu  
       130                  135

&lt;210&gt; 462

&lt;211&gt; 58

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (52)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 462

Met Ala Val Phe Leu Ile Ser Ser Ser Tyr Phe Leu Leu Cys Val Phe  
       1                  5                  10                  15  
 Thr Ile Arg Ser Leu Arg Ala Trp Val Leu Pro Phe Thr Ser Val Pro  
           20                  25                  30  
 Arg Ala Gln Gly Gly Ser Cys Cys Arg Ser Gln Trp Leu Tyr Lys Thr  
       35                  40                  45  
 Leu Pro Pro Xaa Leu Val Cys Lys Pro Val  
       50                  55

&lt;210&gt; 463

&lt;211&gt; 58

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 463

Met Ala Val Phe Leu Ile Ser Ser Ser Tyr Phe Leu Leu Cys Val Phe  
       1                  5                  10                  15

Thr Ile Arg Ser Leu Arg Ala Trp Val Leu Pro Phe Thr Ser Val Pro  
                   20                                  25                                  30

Arg Ala Gln Gly Gly Ser Cys Cys Arg Ser Gln Trp Leu Tyr Lys Thr  
                   35                                  40                                  45

Leu Pro Pro Cys Leu Val Cys Lys Pro Val  
           50                                  55

<210> 464

<211> 58

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 464

Met Ala Val Phe Leu Ile Ser Ser Ser Tyr Phe Leu Leu Cys Val Phe  
       1                                  5                                  10                                  15

Thr Ile Arg Ser Leu Arg Ala Trp Val Leu Pro Phe Thr Ser Val Pro  
                   20                                  25                                  30

Arg Ala Gln Gly Gly Ser Cys Cys Arg Ser Gln Trp Leu Tyr Lys Thr  
                   35                                  40                                  45

Leu Pro Pro Xaa Leu Val Cys Lys Pro Val  
           50                                  55

<210> 465

<211> 58

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 465

Ser Arg Cys Ala Gly Ala Pro Leu Gln Asn Asn Gly Pro Val Arg Glu  
1 5 10 15

Ala Thr Xaa Leu Thr Leu Gln Asn Xaa Gly Pro Xaa Arg Glu Ala Thr  
20 25 30

His Leu Thr Leu Gln Asn Asn Gly Pro Met Arg Glu Ala Xaa His Leu  
35 40 45

Val Leu His Lys Trp Ser Ile Cys Leu Arg  
50 55

<210> 466

<211> 27

<212> PRT

<213> Homo sapiens

<400> 466

Met Pro Tyr Gly Pro Asp Pro Ile Leu Ser Asn Val Leu Leu Ala Gly  
1 5 10 15

Tyr Ile Val Leu Gln Thr Leu Ser Cys Pro Arg  
20 25

<210> 467

<211> 139

<212> PRT

<213> Homo sapiens

<400> 467

Met Val Thr Val Gly Leu Val Ile Cys Phe Ser Glu Trp Cys Cys Ala  
1 5 10 15

Gly Gly Leu Ser Ala Glu Gln Thr Val Ser Asp Lys His Ile Asp Ala  
20 25 30

Leu Met Lys Glu Lys Glu Ala Gly Lys Ser Ser Gly His Tyr Asp Pro  
35 40 45

Arg His Gln Gly Gln Ala Leu Glu Glu Pro Ser Val His Ser Cys Ile  
50 55 60

Tyr Tyr Leu Leu Thr Glu Gln Thr Gln Lys Val Ser Thr Arg Thr Ser  
65 70 75 80

Leu Leu Arg Tyr Arg Trp Pro Cys Glu Glu Val Gly Trp Cys Trp Gly  
85 90 95

Leu Asp Leu Thr Gly Cys Pro Val Val Ile Gln His Glu Gly Val Ala  
100 105 110

Gly Ser Glu Ile Ile Ile Ser Asp Tyr Pro Leu Thr Asn Glu Asn Ile  
115 120 125

Lys Gly Ile Pro Glu Ile Cys Leu Phe His Ile  
 130 135

<210> 468  
 <211> 43  
 <212> PRT  
 <213> Homo sapiens

<400> 468  
 Met Leu Ala Ile Lys Val Leu Ile Val Val Phe Leu Leu Gln Leu Ser  
 1 5 10 15  
 Trp Cys Phe Leu Leu Val Leu Leu Phe His Ser Leu Ile Lys Gly Thr  
 20 25 30  
 Met Ile Asp Ile Pro Ala Pro Tyr Lys Glu Ile  
 35 40

<210> 469  
 <211> 38  
 <212> PRT  
 <213> Homo sapiens

<400> 469  
 Cys Phe Leu Leu Ala Asp Val Gly Asn Ser Ile Ile Phe Ile Thr Asn  
 1 5 10 15  
 Phe Met Glu Gln His Gln Phe Arg Val Lys Leu Glu Asn Gln Cys Ile  
 20 25 30  
 Leu Ile Phe Val Asp Tyr  
 35

<210> 470  
 <211> 4  
 <212> PRT  
 <213> Homo sapiens

<400> 470  
 Val Gly Phe Leu  
 1

<210> 471  
 <211> 77  
 <212> PRT  
 <213> Homo sapiens

<400> 471  
 Ala Pro Arg Arg Gln Ala Gln Glu Trp Leu Gly Arg Thr Gly Asn Thr  
 1 5 10 15

Phe Ala Pro Arg Leu Ala Val Thr Ser Val Lys Ala Asp Arg Arg Glu  
                   20                  25                  30

Met Gly Pro Ser Ser Ser Val Val Ala Ala Ser Pro Ser Leu Gln Asp  
           35                          40                  45

Arg Val Ile Ile Thr Ile Asn Asn Pro Ser Arg Val Lys Lys Lys Lys  
       50                          55                  60

Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys  
       65                          70                  75

<210> 472  
 <211> 245  
 <212> PRT  
 <213> Homo sapiens

<400> 472  
 Ala Trp Arg Arg Arg Arg Ser Gly Thr Ser Gly Lys Ala Thr Trp Trp  
   1                  5                  10                  15

Cys Ser Gly Leu Arg Arg Ala Ser Pro Thr Pro Ser Arg Arg Val Gln  
           20                  25                  30

Ser Trp Ala Thr Ala Val Met Trp Lys Pro Ser Pro Ser Ser Ser Pro  
       35                  40                  45

Ala Ser Trp Ser Cys Thr Ala Leu Arg Ala Pro Gln Ser Cys Leu Arg  
       50                  55                  60

Ala Ala Thr Val Arg Pro Val Thr Leu Gln Ala Arg Ala Asp Ser Pro  
       65                  70                  75                  80

Thr Val Pro Glu Pro Val His Arg Pro Gln Asp Pro Trp His Ile Pro  
           85                  90                  95

Gly Val Pro Glu Pro Val His Arg Pro Gln Asp Pro Trp His Ile Pro  
       100                  105                  110

Gly Val Pro Glu Pro Val His Arg Pro Gln Asp Pro Trp His Ile Pro  
       115                  120                  125

Gly Val Pro Glu Pro Val His Arg Pro Gln Asp Pro Trp Pro Trp Leu  
       130                  135                  140

Gln Leu Val Pro Pro Ala Glu Leu Ala Tyr Cys Leu Leu Met Leu Leu  
       145                  150                  155                  160

Leu Ala His Cys Met Lys Gln Gln Ala Arg Pro Gly His Pro Asp Phe  
           165                  170                  175

Leu His Arg Glu Ala Trp Ala Cys Leu Ser Ala Ala Gly Gly Leu Ala  
       180                  185                  190

Ser Pro Gly Leu Leu Leu Trp Ala Thr Ala Arg Pro Arg Ala Ser Gly  
       195                  200                  205

Glu Ala Gly Pro Gly Arg Ala Leu Val Gly Ala Asp Ala Ala Cys Cys

210 215 220

Pro Arg His Ser Val Leu Ser Leu Val Asp Ile Pro Ser Gly Gln Val  
 225 230 235 240

Leu Pro Gln Gly Gln  
 245

<210> 473  
 <211> 43  
 <212> PRT  
 <213> Homo sapiens

<400> 473

Met Ala Ala Arg Gly Arg Ser Gly Val Gly Pro Pro Gly Phe Leu Arg  
 1 5 10 15

Ala Leu Ala Leu Leu Gln Leu Ser Cys Gly Phe Tyr Trp Ala Cys Ser  
 20 25 30

Arg Gly Trp Met Val Arg Gly Thr Pro His Pro  
 35 40

<210> 474  
 <211> 43  
 <212> PRT  
 <213> Homo sapiens

<400> 474

Met Ala Ala Arg Gly Arg Ser Gly Val Gly Pro Pro Gly Phe Leu Arg  
 1 5 10 15

Ala Leu Ala Leu Leu Gln Leu Ser Cys Gly Phe Tyr Trp Ala Cys Ser  
 20 25 30

Arg Gly Trp Met Val Arg Gly Thr Pro His Pro  
 35 40

<210> 475  
 <211> 43  
 <212> PRT  
 <213> Homo sapiens

<400> 475

Met Phe Asn Leu Ser Phe Phe Thr Leu Tyr Gly Leu Cys Met Leu Lys  
 1 5 10 15

Leu His Ser Ala Ser Ser Trp Phe Thr Leu Leu Leu Leu Ile Ser Leu  
 20 25 30

Phe Leu Ser Val Val Tyr Cys Gln Ser Thr Asn  
 35 40

<210> 476  
 <211> 2  
 <212> PRT  
 <213> Homo sapiens

<400> 476  
 Leu His  
 1

<210> 477  
 <211> 43  
 <212> PRT  
 <213> Homo sapiens.

<400> 477  
 Met Phe Asn Leu Ser Phe Phe Thr Leu Tyr Gly Leu Cys Met Leu Lys  
 1 5 10 15  
 Leu His Ser Ala Ser Ser Trp Phe Thr Leu Leu Leu Leu Ile Ser Leu  
 20 25 30  
 Phe Leu Ser Val Val Tyr Cys Gln Ser Thr Asn  
 35 40

<210> 478  
 <211> 47  
 <212> PRT  
 <213> Homo sapiens

<400> 478  
 Met Ser Leu Leu Leu Pro Pro Leu Ala Leu Leu Leu Leu Leu Ala Ala  
 1 5 10 15  
 Leu Val Ala Pro Ala Thr Ala Ala Thr Ala Tyr Arg Pro Asp Trp Asn  
 20 25 30  
 Arg Leu Ser Gly Leu Thr Arg Ala Arg Val Glu Thr Cys Gly Gly  
 35 40 45

<210> 479  
 <211> 47  
 <212> PRT  
 <213> Homo sapiens

<400> 479  
 Met Ser Leu Leu Leu Pro Pro Leu Ala Leu Leu Leu Leu Leu Ala Ala  
 1 5 10 15  
 Leu Val Ala Pro Ala Thr Ala Ala Thr Ala Tyr Arg Pro Asp Trp Asn  
 20 25 30  
 Arg Leu Ser Gly Leu Thr Arg Ala Arg Val Glu Thr Cys Gly Gly  
 35 40 45



<210> 480  
 <211> 365  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (313)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (316)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (333)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (335)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (338)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (339)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (352)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (355)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 480  
 Met Leu Ser Gly Val Trp Phe Leu Ser Val Leu Thr Val Ala Gly Ile  
     1                    5                    10                    15

Leu Gln Thr Glu Ser Arg Lys Thr Ala Lys Asp Ile Cys Lys Ile Arg  
                     20                    25                    30

Cys Leu Cys Glu Glu Lys Glu Asn Val Leu Asn Ile Asn Cys Glu Asn  
                     35                    40                    45

Lys Gly Phe Thr Thr Val Ser Leu Leu Gln Pro Pro Gln Tyr Arg Ile  
                     50                    55                    60

Tyr Gln Leu Phe Leu Asn Gly Asn Leu Leu Thr Arg Leu Tyr Pro Asn  
 65 70 75 80  
 Glu Phe Val Asn Tyr Ser Asn Ala Val Thr Leu His Leu Gly Asn Asn  
 85 90 95  
 Gly Leu Gln Glu Ile Arg Thr Gly Ala Phe Ser Gly Leu Lys Thr Leu  
 100 105 110  
 Lys Arg Leu His Leu Asn Asn Asn Lys Leu Glu Ile Leu Arg Glu Asp  
 115 120 125  
 Thr Phe Leu Gly Leu Glu Ser Leu Glu Tyr Leu Gln Ala Asp Tyr Asn  
 130 135 140  
 Tyr Ile Ser Ala Ile Glu Ala Gly Ala Phe Ser Lys Leu Asn Lys Leu  
 145 150 155 160  
 Lys Val Leu Ile Leu Asn Asp Asn Leu Leu Leu Ser Leu Pro Ser Asn  
 165 170 175  
 Val Phe Arg Phe Val Leu Leu Thr His Leu Asp Leu Arg Gly Asn Arg  
 180 185 190  
 Leu Lys Val Met Pro Phe Ala Gly Val Leu Glu His Ile Gly Gly Ile  
 195 200 205  
 Met Glu Ile Gln Leu Glu Glu Asn Pro Trp Asn Cys Thr Cys Asp Leu  
 210 215 220  
 Leu Pro Leu Lys Ala Trp Leu Asp Thr Ile Thr Val Phe Val Gly Glu  
 225 230 235 240  
 Ile Val Cys Glu Thr Pro Phe Arg Leu His Gly Lys Asp Val Thr Gln  
 245 250 255  
 Leu Thr Arg Gln Asp Leu Cys Pro Arg Lys Ser Ala Ser Asp Ser Ser  
 260 265 270  
 Gln Arg Gly Ser His Ala Asp Thr His Val Gln Arg Leu Ser Pro Thr  
 275 280 285  
 Met Asn Pro Ala Leu Asn Pro Thr Arg Ala Pro Lys Ala Ser Arg Pro  
 290 295 300  
 Pro Lys Met Arg Asn Arg Pro Thr Xaa Arg Val Xaa Val Ser Lys Asp  
 305 310 315 320  
 Arg Gln Ser Phe Gly Pro Ile Met Val Tyr Gln Thr Xaa Val Xaa Cys  
 325 330 335  
 Ala Xaa Xaa Leu Ser Gln Gln Leu Cys Leu His Leu Ser Glu Leu Xaa  
 340 345 350  
 Gln Trp Xaa Glu Cys Lys Leu Pro Arg Lys Glu Val His  
 355 360 365

<210> 481  
 <211> 23  
 <212> PRT  
 <213> Homo sapiens

<400> 481  
 Gly Tyr Trp Val Ser Phe Leu Leu His Val Asp Gly Val Leu Ala His  
     1                    5                    10                    15  
 Leu Thr Thr Gly Gly Gly Ile  
                     20

<210> 482  
 <211> 191  
 <212> PRT  
 <213> Homo sapiens

<400> 482  
 Met Leu Ser Gly Val Trp Phe Leu Ser Val Leu Thr Val Ala Gly Ile  
     1                    5                    10                    15  
 Leu Gln Thr Glu Ser Arg Lys Thr Ala Lys Asp Ile Cys Lys Ile Arg  
                     20                    25                    30  
 Cys Leu Cys Glu Glu Lys Glu Asn Val Leu Asn Ile Asn Cys Glu Asn  
                     35                    40                    45  
 Lys Gly Phe Thr Thr Val Ser Leu Leu Gln Pro Pro Gln Tyr Arg Ile  
     50                    55                    60  
 Tyr Gln Leu Phe Leu Asn Gly Asn Leu Leu Thr Arg Leu Tyr Pro Asn  
     65                    70                    75                    80  
 Glu Phe Val Asn Tyr Ser Asn Ala Val Thr Leu His Leu Gly Asn Asn  
                     85                    90                    95  
 Gly Leu Gln Glu Ile Arg Thr Gly Ala Phe Ser Gly Leu Lys Thr Leu  
                     100                    105                    110  
 Lys Arg Leu His Leu Asn Asn Asn Lys Leu Glu Ile Leu Arg Glu Asp  
     115                    120                    125  
 Thr Phe Leu Gly Leu Glu Ser Leu Glu Tyr Leu Gln Ala Asp Tyr Asn  
     130                    135                    140  
 Tyr Ile Ser Ala Ile Glu Ala Gly Ala Phe Ser Lys Leu Asn Lys Leu  
     145                    150                    155                    160  
 Lys Val Leu Ile Leu Asn Asp Asn Leu Leu Leu Ser Leu Pro Ser Asn  
                     165                    170                    175  
 Val Phe Arg Phe Val Leu Leu Thr His Leu Asp Leu Arg Gly Asn  
                     180                    185                    190

<210> 483  
 <211> 845

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (477)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 483

Met Leu Ser Gly Val Trp Phe Leu Ser Val Leu Thr Val Ala Gly Ile  
 1 5 10 15

Leu Gln Thr Glu Ser Arg Lys Thr Ala Lys Asp Ile Cys Lys Ile Arg  
 20 25 30

Cys Leu Cys Glu Glu Lys Glu Asn Val Leu Asn Ile Asn Cys Glu Asn  
 35 40 45

Lys Gly Phe Thr Thr Val Ser Leu Leu Gln Pro Pro Gln Tyr Arg Ile  
 50 55 60

Tyr Gln Leu Phe Leu Asn Gly Asn Leu Leu Thr Arg Leu Tyr Pro Asn  
 65 70 75 80

Glu Phe Val Asn Tyr Ser Asn Ala Val Thr Leu His Leu Gly Asn Asn  
 85 90 95

Gly Leu Gln Glu Ile Arg Thr Gly Ala Phe Ser Gly Leu Lys Thr Leu  
 100 105 110

Lys Arg Leu His Leu Asn Asn Asn Lys Leu Glu Ile Leu Arg Glu Asp  
 115 120 125

Thr Phe Leu Gly Leu Glu Ser Leu Glu Tyr Leu Gln Ala Asp Tyr Asn  
 130 135 140

Tyr Ile Ser Ala Ile Glu Ala Gly Ala Phe Ser Lys Leu Asn Lys Leu  
 145 150 155 160

Lys Val Leu Ile Leu Asn Asp Asn Leu Leu Leu Ser Leu Pro Ser Asn  
 165 170 175

Val Phe Arg Phe Val Leu Leu Thr His Leu Asp Leu Arg Gly Asn Arg  
 180 185 190

Leu Lys Val Met Pro Phe Ala Gly Val Leu Glu His Ile Gly Gly Ile  
 195 200 205

Met Glu Ile Gln Leu Glu Glu Asn Pro Trp Asn Cys Thr Cys Asp Leu  
 210 215 220

Leu Pro Leu Lys Ala Trp Leu Asp Thr Ile Thr Val Phe Val Gly Glu  
 225 230 235 240

Ile Val Cys Glu Thr Pro Phe Arg Leu His Gly Lys Asp Val Thr Gln  
 245 250 255

Leu Thr Arg Gln Asp Leu Cys Pro Arg Lys Ser Ala Ser Asp Ser Ser  
 260 265 270

Gln Arg Gly Ser His Ala Asp Thr His Val Gln Arg Leu Ser Pro Thr  
 275 280 285  
 Met Asn Pro Ala Leu Asn Pro Thr Arg Ala Pro Lys Ala Ser Arg Pro  
 290 295 300  
 Pro Lys Met Arg Asn Arg Pro Thr Pro Arg Val Thr Val Ser Lys Asp  
 305 310 315 320  
 Arg Gln Ser Phe Gly Pro Ile Met Val Tyr Gln Thr Lys Ser Pro Val  
 325 330 335  
 Pro Leu Thr Cys Pro Ser Ser Cys Val Cys Thr Ser Gln Ser Ser Asp  
 340 345 350  
 Asn Gly Leu Asn Val Asn Cys Gln Glu Arg Lys Phe Thr Asn Ile Ser  
 355 360 365  
 Asp Leu Gln Pro Lys Pro Thr Ser Pro Lys Lys Leu Tyr Leu Thr Gly  
 370 375 380  
 Asn Tyr Leu Gln Thr Val Tyr Lys Asn Asp Leu Leu Glu Tyr Ser Ser  
 385 390 395 400  
 Leu Asp Leu Leu His Leu Gly Asn Asn Arg Ile Ala Val Ile Gln Glu  
 405 410 415  
 Gly Ala Phe Thr Asn Leu Thr Ser Leu Arg Arg Leu Tyr Leu Asn Gly  
 420 425 430  
 Asn Tyr Leu Glu Val Leu Tyr Pro Ser Met Phe Asp Gly Leu Gln Ser  
 435 440 445  
 Leu Gln Tyr Leu Tyr Leu Glu Tyr Asn Val Ile Lys Glu Ile Lys Pro  
 450 455 460  
 Leu Thr Phe Asp Ala Leu Ile Asn Leu Gln Leu Leu Xaa Leu Asn Asn  
 465 470 475 480  
 Asn Leu Leu Arg Ser Leu Pro Asp Asn Ile Phe Gly Gly Thr Ala Leu  
 485 490 495  
 Thr Arg Leu Asn Leu Arg Asn Asn His Phe Ser His Leu Pro Val Lys  
 500 505 510  
 Gly Val Leu Asp Gln Leu Pro Ala Phe Ile Gln Ile Asp Leu Gln Glu  
 515 520 525  
 Asn Pro Trp Asp Cys Thr Cys Asp Ile Met Gly Leu Lys Asp Trp Thr  
 530 535 540  
 Glu His Ala Asn Ser Pro Val Ile Ile Asn Glu Val Thr Cys Glu Ser  
 545 550 555 560  
 Pro Ala Lys His Ala Gly Glu Ile Leu Lys Phe Leu Gly Arg Glu Ala  
 565 570 575  
 Ile Cys Pro Asp Ser Pro Asn Leu Ser Asp Gly Thr Val Leu Ser Met  
 580 585 590

Asn His Asn Thr Asp Thr Pro Arg Ser Leu Ser Val Ser Pro Ser Ser  
 595 600 605  
 Tyr Pro Glu Leu His Thr Glu Val Pro Leu Ser Val Leu Ile Leu Gly  
 610 615 620  
 Leu Leu Val Val Phe Ile Leu Ser Val Cys Phe Gly Ala Gly Leu Phe  
 625 630 635 640  
 Val Phe Val Leu Lys Arg Arg Lys Gly Val Pro Ser Val Pro Arg Asn  
 645 650 655  
 Thr Asn Asn Leu Asp Val Ser Ser Phe Gln Leu Gln Tyr Gly Ser Tyr  
 660 665 670  
 Asn Thr Glu Thr His Asp Lys Thr Asp Gly His Val Tyr Asn Tyr Ile  
 675 680 685  
 Pro Pro Pro Val Gly Gln Met Cys Gln Asn Pro Ile Tyr Met Gln Lys  
 690 695 700  
 Glu Gly Asp Pro Val Ala Tyr Tyr Arg Asn Leu Gln Glu Phe Ser Tyr  
 705 710 715 720  
 Ser Asn Leu Glu Glu Lys Lys Glu Glu Pro Ala Thr Pro Ala Tyr Thr  
 725 730 735  
 Ile Ser Ala Thr Glu Leu Leu Glu Lys Gln Ala Thr Pro Arg Glu Pro  
 740 745 750  
 Glu Leu Leu Tyr Gln Asn Ile Ala Glu Arg Val Lys Glu Leu Pro Ser  
 755 760 765  
 Ala Gly Leu Val His Tyr Asn Phe Cys Thr Leu Pro Lys Arg Gln Phe  
 770 775 780  
 Ala Pro Ser Tyr Glu Ser Arg Arg Gln Asn Gln Asp Arg Ile Asn Lys  
 785 790 795 800  
 Thr Val Leu Tyr Gly Thr Pro Arg Lys Cys Phe Val Gly Gln Ser Lys  
 805 810 815  
 Pro Asn His Pro Leu Leu Gln Ala Lys Pro Gln Ser Glu Pro Asp Tyr  
 820 825 830  
 Leu Glu Val Leu Glu Lys Gln Thr Ala Ile Ser Gln Leu  
 835 840 845

&lt;210&gt; 484

&lt;211&gt; 141

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (125)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids.

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (131)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 484

Phe Cys Leu Leu His Val Pro Ala Ser Cys Tyr Cys Ser Phe Ser Asn  
 1 5 10 15

Gly Ile Thr Ser Pro Cys His Ala Leu Gly Ser Pro Ser Leu Ser Ile  
 20 25 30

Ser Val Leu Leu Ser Trp Leu Asn Pro Ser Thr Ile Leu Asn Thr Gly  
 35 40 45

Ser Ser Cys Pro Ile Pro Arg Leu Thr Leu Ser Asp Leu Pro Ile Ser  
 50 55 60

Leu Ala Phe His Ala Pro Leu Pro Pro Pro Gly Phe Asn Trp Val  
 65 70 75 80

Arg Ala Val Phe Leu Pro Leu Cys Ser Ala Ser Ala Leu Arg Thr Pro  
 85 90 95

Arg Gly Leu Gly Gly Lys Val Leu Thr Ile Phe Thr Leu Cys Leu Pro  
 100 105 110

Leu His His Leu Phe Ile Thr Ser Gln Pro Leu Leu Xaa Gln Val Phe  
 115 120 125

Thr His Xaa Leu Phe Leu Gln Val Phe Asp Trp Arg Glu  
 130 135 140

&lt;210&gt; 485

&lt;211&gt; 8

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 485

Ser His Ile Val Thr Cys Leu Gly  
 1 5

&lt;210&gt; 486

&lt;211&gt; 42

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 486

Met Gly Leu Lys Asn Ser Ser Leu Ile Thr Cys Phe Leu Leu Ala Phe  
 1 5 10 15

Val Val Phe Val Leu Phe Cys Leu Phe Cys Phe Val Phe Leu Cys Tyr  
 20 25 30

Phe Ile Gly Lys Val Ser Gly Met Cys Ser  
 35 40

&lt;210&gt; 487

&lt;211&gt; 42

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 487

Met Gly Leu Lys Asn Ser Ser Leu Ile Thr Cys Phe Leu Leu Ala Phe  
 1 5 10 15

Val Val Phe Val Leu Phe Cys Leu Phe Cys Phe Val Phe Leu Cys Tyr  
 20 25 30

Phe Ile Gly Lys Val Ser Gly Met Cys Ser  
 35 40

&lt;210&gt; 488

&lt;211&gt; 27

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 488

Met Arg Arg Met Ala Ser Ala Leu Leu Leu Asp Gln Leu Thr Lys Ala  
 1 5 10 15

Leu Leu Ser Gly His Gln Asn Trp Lys Ala Phe  
 20 25

&lt;210&gt; 489

&lt;211&gt; 137

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (7)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (33)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 489

Xaa Arg Cys Phe Thr Phe Xaa Phe Thr Asp Ile Val Ile Met Pro Lys  
 1 5 10 15

Arg Lys Phe Pro Glu Asn Thr Glu Gly Lys Asp Gly Ser Lys Val Thr  
 20 25 30



Xaa Gln Glu Pro Thr Arg Arg Ser Ala Arg Leu Ser Ala Lys Pro Ala  
           35                          40                          45  
 Pro Pro Lys Pro Glu Pro Lys Pro Arg Lys Thr Ser Ala Lys Lys Glu  
           50                          55                          60  
 Pro Gly Ala Lys Ile Ser Arg Gly Ala Lys Gly Lys Lys Glu Glu Lys  
           65                          70                          75                          80  
 Gln Glu Ala Gly Lys Glu Gly Thr Ala Pro Ser Glu Asn Gly Glu Thr  
                           85                          90                          95  
 Lys Ala Glu Glu Ile His Ile Ser Arg Ser Thr Val Asn Val Ser Thr  
                           100                          105                          110  
 Ser Arg Gly Thr Pro Pro Ser Thr Leu Ser Val Lys Gly Gln Ile Glu  
           115                          120                          125  
 Thr Val Arg Val Lys Gly Thr Glu Asn  
           130                          135

&lt;210&gt; 490

&lt;211&gt; 46

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (38)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 490

Asn Lys Pro Asp Thr Gly Arg Lys Ile Leu His Asp Leu Ile Cys Gly  
           1                          5                          10                          15

Ile Leu Lys Lys Lys Lys Lys Lys Ser Gln Ile Tyr Arg Val Asn Lys  
                           20                          25                          30

Arg Val Gly Tyr Gln Xaa Gln Val Gly Gly Glu Trp Glu Met  
           35                          40                          45

&lt;210&gt; 491

&lt;211&gt; 50

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 491

Met Gln Pro Pro Phe Val Leu Thr Thr Thr Thr Met Ile Ser Leu Phe  
           1                          5                          10                          15

Leu Ala Leu Ile Ser Thr Lys Lys Val His Leu Thr Ile Pro Gln Pro  
                           20                          25                          30

Phe Thr Ser His Ser Arg Leu Ser Phe Asp Val Phe Lys Arg Lys Ala  
           35                          40                          45

Arg Ala  
50

<210> 492  
<211> 228  
<212> PRT  
<213> Homo sapiens

<400> 492  
Thr Gln Asp His Gln Lys Leu Cys Tyr Ser Ala Leu Ile Leu Ala Met  
1 5 10 15  
Val Phe Ser Met Gly Glu Ala Val Pro Tyr Ala His Tyr Glu His Leu  
20 25 30  
Gly Thr Pro Phe Ala Gln Phe Leu Leu Asn Ile Val Glu Asp Gly Leu  
35 40 45  
Pro Leu Asp Thr Thr Glu Gln Leu Pro Asp Leu Cys Val Asn Leu Leu  
50 55 60  
Leu Ala Leu Asn Leu His Leu Pro Ala Ala Asp Gln Asn Val Ile Met  
65 70 75 80  
Ala Ala Leu Ser Lys His Ala Asn Val Lys Ile Phe Ser Glu Lys Leu  
85 90 95  
Leu Leu Leu Leu Asn Arg Gly Asp Asp Pro Val Arg Ile Phe Lys His  
100 105 110  
Glu Pro Gln Pro Pro His Ser Val Leu Lys Phe Leu Gln Asp Val Phe  
115 120 125  
Gly Ser Pro Ala Thr Ala Ala Ile Phe Tyr His Thr Asp Met Met Ala  
130 135 140  
Leu Ile Asp Ile Thr Val Arg His Ile Ala Asp Leu Ser Pro Gly Asp  
145 150 155 160  
Lys Leu Arg Met Glu Tyr Leu Ser Leu Met His Ala Ile Val Arg Thr  
165 170 175  
Thr Pro Tyr Leu Gln His Arg His Arg Leu Pro Asp Leu Gln Ala Ile  
180 185 190  
Leu Arg Arg Ile Leu Asn Glu Glu Glu Thr Ser Pro Gln Cys Gln Met  
195 200 205  
Asp Arg Met Ile Val Arg Glu Met Cys Lys Glu Phe Leu Val Leu Gly  
210 215 220  
Glu Ala Pro Ser  
225

<210> 493

<211> 13  
 <212> PRT  
 <213> Homo sapiens

<400> 493  
 Pro Phe His Phe Ser Thr Pro Ser Ile Thr Gly Leu Phe  
           1                  5                  10

<210> 494  
 <211> 2  
 <212> PRT  
 <213> Homo sapiens

<400> 494  
 Phe Leu  
           1

<210> 495  
 <211> 50  
 <212> PRT  
 <213> Homo sapiens

<400> 495  
 Met Gln Pro Pro Phe Val Leu Thr Thr Thr Thr Met Ile Ser Leu Phe  
           1                  5                  10                  15

Leu Ala Leu Ile Ser Thr Lys Lys Val His Leu Thr Ile Pro Gln Pro  
                   20                  25                  30

Phe Thr Ser His Ser Arg Leu Ser Phe Asp Val Phe Lys Arg Lys Ala  
           35                  40                  45

Arg Ala  
           50

<210> 496  
 <211> 71  
 <212> PRT  
 <213> Homo sapiens

<400> 496  
 Met Phe Ile Phe Ile Leu Met Ile His Leu Ile Tyr Met Trp Ile Gln  
           1                  5                  10                  15

Gly Thr Lys Phe Met Tyr Lys Ser Ser His Leu Met Asn Val Asp Thr  
           20                  25                  30

Phe Leu Glu Asn Ile Tyr Gln Cys Glu Asn Phe Phe Asn Thr Leu Thr  
           35                  40                  45

Thr Lys Ile Lys Tyr Ser Leu Ile Ser Leu Phe Asn Lys His Gln Asn  
           50                  55                  60

Asn Val Ser Val Phe Ile Leu

65

70

&lt;210&gt; 497

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 497

Leu Phe Ile Leu Val Leu His Asn Glu Asp Asn Leu Tyr Gly

1

5

10

&lt;210&gt; 498

&lt;211&gt; 71

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 498

Met Phe Ile Phe Ile Leu Met Ile His Leu Ile Tyr Met Trp Ile Gln

1

5

10

15

Gly Thr Lys Phe Met Tyr Lys Ser Ser His Leu Met Asn Val Asp Thr

20

25

30

Phe Leu Glu Asn Ile Tyr Gln Cys Glu Asn Phe Phe Asn Thr Leu Thr

35

40

45

Thr Lys Ile Lys Tyr Ser Leu Ile Ser Leu Phe Asn Lys His Gln Asn

50

55

60

Asn Val Ser Val Phe Ile Leu

65

70

&lt;210&gt; 499

&lt;211&gt; 167

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (82)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (88)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (96)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (106)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (111)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 499

Gly	Arg	Cys	Leu	Asp	Cys	Phe	Asn	Pro	Phe	Leu	Leu	Ser	Cys	Pro	Arg
1				5					10					15	

Ile	Gly	Leu	Val	Glu	Gln	Gly	Gly	Val	Lys	Ile	Glu	Pro	Leu	Pro	Lys
		20						25					30		

Glu	Val	Lys	Val	Tyr	Leu	Leu	Thr	Thr	Ser	Ser	Ala	Pro	Tyr	Cys	Met
		35					40					45			

His	His	Ser	Leu	Val	Glu	Phe	His	Leu	Lys	Glu	Leu	Arg	Asn	Lys	Asp
	50					55					60				

Thr	Asn	Ile	Glu	Val	Thr	Phe	Leu	Ser	Ser	Asn	Ile	Thr	Ser	Ser	Ser
65					70					75					80

Lys	Xaa	Thr	Ile	Pro	Lys	Gln	Xaa	Arg	Tyr	Gly	Glu	Arg	Asn	His	Xaa
			85						90					95	

Pro	Met	Pro	Thr	Pro	Gln	Cys	Gln	Ile	Xaa	Gln	Val	Lys	Phe	Xaa	Phe
		100					105						110		

Gln	Ser	Ser	Asn	Arg	Val	Trp	Lys	Lys	Asp	Arg	Thr	Thr	Ile	Ile	Gly
	115						120					125			

Lys	Phe	Cys	Thr	Ala	Leu	Leu	Pro	Val	Asn	Asp	Arg	Glu	Lys	Met	Val
130					135						140				

Cys	Leu	Pro	Glu	Pro	Val	Asn	Leu	Gln	Ala	Ser	Val	Thr	Val	Ser	Cys
145					150					155					160

Asp	Leu	Lys	Ile	Ala	Cys	Val
						165

&lt;210&gt; 500

&lt;211&gt; 1

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 500

Met

1

&lt;210&gt; 501

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 501

Thr Thr Glu Ile Cys Gly Thr Leu Ile Leu Arg Glu Met Ile  
 1 5 10

&lt;210&gt; 502

&lt;211&gt; 67

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 502

Met Ser Leu Phe Leu Thr Leu Ala Leu Cys Ser Val Leu Leu Val His  
 1 5 10 15

Leu Asn Val Leu Ala Arg Asn Cys Phe Tyr Asp Ser Gly Phe Val Val  
 20 25 30

His Pro Trp Ile Trp Leu Gly His Ser Leu Pro Tyr Phe Tyr Phe Ser  
 35 40 45

Pro Leu Ser Gln Arg Leu Phe Ser Tyr Leu Trp Thr Phe Ile Phe Pro  
 50 55 60

Cys Arg Leu  
 65

&lt;210&gt; 503

&lt;211&gt; 67

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 503

Met Ser Leu Phe Leu Thr Leu Ala Leu Cys Ser Val Leu Leu Val His  
 1 5 10 15

Leu Asn Val Leu Ala Arg Asn Cys Phe Tyr Asp Ser Gly Phe Val Val  
 20 25 30

His Pro Trp Ile Trp Leu Gly His Ser Leu Pro Tyr Phe Tyr Phe Ser  
 35 40 45

Pro Leu Ser Gln Arg Leu Phe Ser Tyr Leu Trp Thr Phe Ile Phe Pro  
 50 55 60

Cys Arg Leu  
 65

&lt;210&gt; 504

&lt;211&gt; 5

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 504

Leu Tyr Leu Phe Met  
 1 5

&lt;210&gt; 505

&lt;211&gt; 65

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 505

Ile Ile Tyr Leu Leu Phe Val Thr Lys Trp Glu Ile Arg Lys Lys Val  
 1 5 10 15

Arg Lys Tyr Leu Arg Gly Lys Ser Phe Leu Leu Ser His Val Phe Ser  
 20 25 30

Thr Cys Leu Pro Trp Tyr Ile Ile Asn Thr Asp Ile Leu His Thr Pro  
 35 40 45

Cys Lys Ile Leu Leu Lys Leu Ser Ser Thr Trp His Val Glu Tyr Val  
 50 55 60

Pro

65

&lt;210&gt; 506

&lt;211&gt; 151

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 506

Met Val Val Ala Ala Val Tyr Ile Leu Tyr Leu Leu Phe Leu Ile Val  
 1 5 10 15

Arg Ala Cys Ser Glu Leu Arg His Met Pro Tyr Val Asp Leu Arg Leu  
 20 25 30

Lys Phe Leu Thr Ala Leu Thr Phe Val Val Leu Val Ile Ser Ile Ala  
 35 40 45

Ile Leu Tyr Leu Arg Phe Gly Ala Gln Val Leu Gln Asp Asn Phe Val  
 50 55 60

Ala Glu Leu Ser Thr His Tyr Gln Asn Ser Ala Glu Phe Leu Ser Phe  
 65 70 75 80

Tyr Gly Leu Leu Asn Phe Tyr Leu Tyr Thr Leu Ala Phe Val Tyr Ser  
 85 90 95

Pro Ser Lys Asn Ala Leu Tyr Glu Ser Gln Leu Lys Asp Asn Pro Ala  
 100 105 110

Phe Ser Met Leu Asn Asp Ser Asp Asp Asp Val Ile Tyr Gly Ser Asp  
 115 120 125

Tyr Glu Glu Met Pro Leu Gln Asn Gly Gln Ala Ile Arg Ala Lys Tyr  
 130 135 140

Lys Glu Glu Ser Asp Ser Asp

145

150

&lt;210&gt; 507

&lt;211&gt; 31

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 507

Leu Phe Leu Pro Phe Ser Met Val Leu Phe Cys Asp Pro Leu Asn Ser  
 1 5 10 15

Lys Gly Ser Leu Ile Cys Gly Cys Phe Arg Ala Val Leu Pro Arg  
 20 25 30

&lt;210&gt; 508

&lt;211&gt; 151

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (130)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 508

Met Val Val Ala Ala Val Tyr Ile Leu Tyr Leu Leu Phe Leu Ile Val  
 1 5 10 15

Arg Ala Cys Ser Glu Leu Arg His Met Pro Tyr Val Asp Leu Arg Leu  
 20 25 30

Lys Phe Leu Thr Ala Leu Thr Phe Val Val Leu Val Ile Ser Ile Ala  
 35 40 45

Ile Leu Tyr Leu Arg Phe Gly Ala Gln Val Leu Gln Asp Asn Phe Val  
 50 55 60

Ala Glu Leu Ser Thr His Tyr Gln Asn Ser Ala Glu Phe Leu Ser Phe  
 65 70 75 80

Tyr Gly Leu Leu Asn Phe Tyr Leu Tyr Thr Leu Ala Phe Val Tyr Ser  
 85 90 95

Pro Ser Lys Asn Ala Leu Tyr Glu Ser Gln Leu Lys Asp Asn Pro Ala  
 100 105 110

Phe Ser Met Leu Asn Asp Ser Asp Asp Asp Val Ile Tyr Gly Ser Asp  
 115 120 125

Tyr Xaa Glu Met Pro Leu Gln Asn Gly Gln Ala Ile Arg Ala Lys Tyr  
 130 135 140

Lys Glu Glu Ser Asp Ser Asp  
 145 150



<210> 509  
 <211> 51  
 <212> PRT  
 <213> Homo sapiens

<400> 509  
 Met Arg Cys Gly Glu Ile Ile Leu Ala Ser Val Leu Gly Leu Leu Leu  
           1                  5                  10                  15  
 Thr Leu Pro Pro Thr Ser Cys His Leu Asn Lys Ser Phe Pro Phe Leu  
                   20                  25                  30  
 Cys Leu Pro Trp Ser Gln Ala Leu Ser Leu Asn Pro His Ser Gly Asn  
                   35                  40                  45  
 Glu Ala Gly  
           50

<210> 510  
 <211> 51  
 <212> PRT  
 <213> Homo sapiens

<400> 510  
 Met Arg Cys Gly Glu Ile Ile Leu Ala Ser Val Leu Gly Leu Leu Leu  
           1                  5                  10                  15  
 Thr Leu Pro Pro Thr Ser Cys His Leu Asn Lys Ser Phe Pro Phe Leu  
                   20                  25                  30  
 Cys Leu Pro Trp Ser Gln Ala Leu Ser Leu Asn Pro His Ser Gly Asn  
                   35                  40                  45  
 Glu Ala Gly  
           50

<210> 511  
 <211> 101  
 <212> PRT  
 <213> Homo sapiens

<400> 511  
 Leu Arg Asp Pro Glu Asn Cys Val Glu Cys Gly Asp Gly Glu Cys Ala  
           1                  5                  10                  15  
 Cys Gly Cys Thr His Ile Gly Tyr Leu Cys Val Cys Thr Val Tyr Met  
                   20                  25                  30  
 Gln Gly Cys Val Tyr Val Cys Met Cys Ile Arg Val Trp Val Trp Val  
                   35                  40                  45  
 Trp Gly Val Phe Arg Glu Cys Ala Tyr Thr His Gly Cys Leu Gly Met  
           50                  55                  60  
 Cys Thr Cys Leu Cys Val Arg Gly Val Cys Val Cys Val Cys Met Val

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<210> 513
<211> 45
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (39)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 513
Leu Gly Ser Ala Arg His Arg Pro His Ala Leu Val Leu Gly Met Ser
 1             5             10             15
Ser Pro Phe Leu Lys Lys Thr Cys Ser Ala Val Thr Thr Thr Lys Lys
          20             25             30
His Gly Glu Asp Trp Ala Xaa Asp Met Met Phe Ser Ser
      35             40             45

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&lt;210&gt; 514

&lt;211&gt; 35

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (15)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (20)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 514

Leu	Thr	Ser	Phe	Gly	Leu	Arg	Ala	Ile	Leu	Ile	Phe	Gln	Met	Xaa	Ser
1				5					10					15	

Asp	Val	Asn	Xaa	Ile	Gly	Lys	His	Gln	Arg	Asn	Gly	Cys	Lys	Val	Ser
		20						25					30		

Gly	Thr	Glu
		35

&lt;210&gt; 515

&lt;211&gt; 50

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 515

Met	Gly	Gln	Ala	Ser	Ala	Leu	Ala	Ser	Leu	Leu	Leu	Arg	Ala	Leu	Ala
1				5					10					15	

Leu	Val	Leu	Gly	Ala	Arg	Ile	Gly	Lys	Gly	Gly	Gln	Arg	Gly	Met	Ile
			20					25					30		

Ile	Ile	Ser	Ile	Ala	Ala	Leu	Pro	Ser	Thr	Gly	Cys	Gln	Glu	Leu	Tyr
		35					40					45			

Ile	His
	50

&lt;210&gt; 516

&lt;211&gt; 75

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 516

Ser	Pro	Ile	Ile	Phe	Pro	Leu	Asn	His	Tyr	Thr	Arg	Ile	Ser	His	Leu
1				5					10					15	

Cys	Pro	Pro	Asp	Ile	Leu	Gly	Trp	Ile	Ile	Leu	Gly	Leu	Gly	Gly	Cys
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

20

25

30

Pro Val Arg Cys Arg Thr Phe Ser Ser Ile Leu Gly Leu Phe Leu Leu  
                   35                  40                  45

Asp Ala Ser Ser Thr Pro Phe Leu Ser Tyr Asp Arg Leu Lys Cys Pro  
           50                  55                  60

Pro Gly Lys Arg Trp Trp Gln Asn Tyr Pro Trp  
       65                  70                  75

&lt;210&gt; 517

&lt;211&gt; 60

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 517

Met Asn Glu Ser Phe Tyr Cys Ser Ala Phe Leu Pro Ala Phe Ile Val  
       1                  5                  10                  15

Cys Trp Ile Leu Ala Ile Leu Ile Val Leu Thr Cys Gly Phe Arg Met  
                   20                  25                  30

Thr Asp Tyr Ile Glu His Leu His Glu Ile Leu Cys His Leu Tyr Ile  
           35                  40                  45

Phe Phe Gly Lys Ala Ser Ile Ser Gly Leu Ser Thr  
       50                  55                  60

&lt;210&gt; 518

&lt;211&gt; 60

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 518

Met Asn Glu Ser Phe Tyr Cys Ser Ala Phe Leu Pro Ala Phe Ile Val  
       1                  5                  10                  15

Cys Trp Ile Leu Ala Ile Leu Ile Val Leu Thr Cys Gly Phe Arg Met  
                   20                  25                  30

Thr Asp Tyr Ile Glu His Leu His Glu Ile Leu Cys His Leu Tyr Ile  
           35                  40                  45

Phe Phe Gly Lys Ala Ser Ile Ser Gly Leu Ser Thr  
       50                  55                  60

&lt;210&gt; 519

&lt;211&gt; 33

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 519

Met Ala Ala Ala Trp Phe Ile Leu Leu Phe Lys His Cys Val His Ser

1	5	10	15
Ser	Ser	Ile	Val
Asp	Leu	Ser	Phe
Lys	Glu	Ser	Ser
Pro	Trp	Asp	Ile
20	25	30	

Lys

&lt;210&gt; 520

&lt;211&gt; 12

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 520

Ala Trp Tyr Val Ile Ile Thr Leu Val Phe Asp Gly

1

5

10

&lt;210&gt; 521

&lt;211&gt; 15

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (10)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (12)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 521

Ala Trp Tyr Val Val Met Ala Leu Thr Xaa Met Xaa Trp Asp Phe

1

5

10

15

&lt;210&gt; 522

&lt;211&gt; 17

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 522

Leu Leu Leu Asn Phe Cys Ala Val Thr Ala Phe Phe Thr Pro Ile Leu

1

5

10

15

Gln

&lt;210&gt; 523

&lt;211&gt; 33

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 523

Met Ala Ala Ala Trp Phe Ile Leu Leu Phe Lys His Cys Val His Ser  
 1 5 10 15

Ser Ser Ile Val Asp Leu Ser Phe Lys Glu Ser Ser Pro Trp Asp Ile  
 20 25 30

Lys

&lt;210&gt; 524

&lt;211&gt; 85

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (32)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 524

Leu Trp Arg Tyr Leu Gly Phe Cys Ile Leu Cys His Ile Trp Gln Lys  
 1 5 10 15

Thr Phe Tyr Leu Cys Cys His Glu Lys Gly Cys Thr Met Thr Gln Xaa  
 20 25 30

Pro Pro Gln Ala Ser Gly Pro Ala Glu Ala Lys Ser Glu His Arg Glu  
 35 40 45

Lys Arg Arg Lys Arg Glu Asp Arg Trp Gly Lys Gln Glu Arg Arg Asp  
 50 55 60

Arg Asp Val His Ile Leu Gly Cys Gln Val Trp His Ser Cys Ser Ala  
 65 70 75 80

Arg Val Ala Leu Ser  
 85

&lt;210&gt; 525

&lt;211&gt; 91

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (69)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 525

Met Arg Ala Cys Val Cys Val Tyr Ala Cys Ala His Met Cys Val Cys  
 1 5 10 15

Leu Ala Phe Ser Tyr Leu Ile Gly Cys Ile Lys Cys Arg Pro Lys Asp  
 20 25 30

Glu Gly Glu Asp Tyr Thr Gln Ser Leu Ala Val Thr Ala Ser Val Gln  
                   35                  40                  45

Lys Ser Cys Val Trp Ala Gln Asn Tyr Ser Leu His Ser Cys Asn Thr  
           50                  55                  60

Tyr Ala Ser Arg Xaa Gln Arg Ala Leu Ser Pro Gly Leu His Asn Arg  
       65                  70                  75                  80

Arg Glu Lys Gln Leu Cys Gly Glu Leu Val Thr  
                   85                  90

<210> 526  
 <211> 96  
 <212> PRT  
 <213> Homo sapiens

<400> 526  
 Met Arg Ala Cys Val Cys Val Tyr Ala Cys Ala His Met Cys Val Cys  
       1                  5                  10                  15

Leu Ala Phe Ser Tyr Leu Ile Gly Cys Ile Lys Cys Arg Pro Lys Asp  
                   20                  25                  30

Glu Gly Glu Asp Leu His Pro Lys Pro Gly Cys Asp Ser Phe Cys Pro  
           35                  40                  45

Glu Lys Leu Cys Leu Gly Ser Glu Leu Leu Thr Thr Phe Met Gln Tyr  
       50                  55                  60

Ile Cys Lys Gln Gly Ala Glu Ser Phe Ile Thr Gly Ala Thr Gln Gln  
       65                  70                  75                  80

Lys Gly Lys Thr Val Met Trp Arg Ala Gly Asp Leu Thr Arg Glu Ala  
                   85                  90                  95

<210> 527  
 <211> 48  
 <212> PRT  
 <213> Homo sapiens

<400> 527  
 Met Met Leu Tyr Gln Asn Met Leu Leu Tyr Phe Arg Ile Ile Gly Val  
       1                  5                  10                  15

Leu Ala Leu Asn Phe Ser Ile Ser Pro Ile Phe Phe His Gly Ser Leu  
                   20                  25                  30

Gly Lys Leu Tyr Val Tyr Ser Ala Ala Lys Tyr Ser Leu Glu Leu Lys  
           35                  40                  45

<210> 528  
<211> 4  
<212> PRT  
<213> Homo sapiens

<400> 528  
Met Phe Lys Met  
1

<210> 529  
<211> 10  
<212> PRT  
<213> Homo sapiens

<400> 529  
Ile Tyr Gln His Phe Ser Leu Trp Leu Gly  
1 5 10

<210> 530  
<211> 48  
<212> PRT  
<213> Homo sapiens

<400> 530  
Met Met Leu Tyr Gln Asn Met Leu Leu Tyr Phe Arg Ile Ile Gly Val  
1 5 10 15

Leu Ala Leu Asn Phe Ser Ile Ser Pro Ile Phe Phe His Gly Ser Leu  
20 25 30

Gly Lys Leu Tyr Val Tyr Ser Ala Ala Lys Tyr Ser Leu Glu Leu Lys  
35 40 45

<210> 531  
<211> 22  
<212> PRT  
<213> Homo sapiens

<400> 531  
His Ser Asp Leu Gly Leu Ser Cys Pro Glu Leu Leu Leu Pro Cys Ile  
1 5 10 15

Ile Leu Ile Thr Phe Ser  
20



<210> 532  
 <211> 96  
 <212> PRT  
 <213> Homo sapiens

<400> 532

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Met His His His Ala His Leu Ser Cys Tyr Asp Phe Leu Met Leu Leu
  1              5              10              15

Phe Leu Leu Leu His Pro Leu Leu Pro Pro Pro Pro Thr Ala Ser Leu
          20              25              30

Pro Pro Ser Pro Leu Ile Cys Leu Phe Leu His Thr Val Pro Trp Asn
          35              40              45

Leu Ser Leu Ala Ser Ser His Ser Thr His Ser Leu Arg Ala Leu Pro
          50              55              60

Phe Thr Ser Ala Ile Val Tyr Thr Phe Thr Leu Asp His Ser Ser Glu
          65              70              75              80

Ile Ser Gln Leu Leu His Pro Asp Gly Cys Ser Ala Pro Pro Pro Gly
          85              90              95
  
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<210> 533  
 <211> 111  
 <212> PRT  
 <213> Homo sapiens

<400> 533

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Met His His His Ala His Leu Ser Cys Tyr Asp Phe Leu Met Leu Leu
  1              5              10              15

Phe Leu Leu Leu His Pro Leu Leu Pro Pro Pro Pro Thr Ala Ser Leu
          20              25              30

Pro Pro Ser Pro Leu Ile Cys Leu Phe Leu His Thr Val Pro Trp Asn
          35              40              45

Leu Ser Leu Ala Ser Ser His Ser Thr His Ser Leu Arg Ala Leu Pro
          50              55              60

Phe Thr Ser Ala Ile Val Tyr Thr Phe Thr Leu Asp His Ser Ser Glu
          65              70              75              80

Ile Ser Gln Leu Leu His Pro Asp Gly Cys Ser Ala Pro Pro Pro Gly
          85              90              95

Cys Pro Thr Gly Thr Leu Asn Pro Thr Ser Pro Lys Leu Asn Ser
          100              105              110
  
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<210> 534  
 <211> 70

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (20)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (60)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 534

Gly	Arg	Lys	Arg	Asp	Gly	Gly	Trp	Arg	Lys	Gly	Gln	Lys	Ala	Gln	Val
1				5					10					15	

Glu	Val	Pro	Xaa	Leu	Leu	Ala	Arg	Arg	Ile	Leu	Trp	Pro	Leu	Gly	Gly
			20					25					30		

Trp	Ser	Gly	Cys	Val	Asn	Gln	Ser	Leu	Ser	Gln	Trp	Arg	Ala	Gly	Leu
		35					40					45			

Val	Val	Cys	Val	Phe	Ile	Thr	Gly	Pro	His	Pro	Xaa	His	Thr	His	Thr
		50					55				60				

Arg	Thr	His	Cys	Gly	Val
65					70

&lt;210&gt; 535

&lt;211&gt; 70

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 535

Ala	Leu	Ser	Ile	Asn	Lys	Lys	Gln	Pro	Asn	Ala	Trp	Gly	Glu	Thr	Val
1				5					10					15	

Thr	Lys	Gly	Pro	Ala	Phe	Arg	Asn	Trp	Asp	Val	Lys	Gly	Val	Glu	Asn
			20					25					30		

Gly	Trp	Gly	Val	Lys	Gly	Glu	His	Val	Lys	Met	Gln	Glu	Ser	Ser	Phe
		35					40					45			

Gly	Asp	Ile	Ala	Pro	Gly	Gly	Met	Trp	Val	Ser	Met	Asn	Tyr	Met	Lys
	50						55					60			

Gly	Cys	Pro	Ser	Cys	Ser
65					70

&lt;210&gt; 536

&lt;211&gt; 55

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 536

Met Val Ala Val Cys Trp Cys Leu Ala Leu Thr Ala Lys Val Ser Ala  
 1 5 10 15  
 Ser Cys Ser Tyr Met Lys Leu Arg Pro Trp Pro Ala Asp Pro Trp Gln  
 20 25 30  
 Cys Trp Ala Trp Thr Trp Leu Pro Gln Pro Cys Cys Pro Ala Thr Thr  
 35 40 45  
 Gln Thr Leu Ala Trp Cys Ser  
 50 55

<210> 537  
 <211> 40  
 <212> PRT  
 <213> Homo sapiens

<400> 537  
 Met Lys Cys Ser Lys Val Leu Thr Gln Leu Ile Leu Phe Thr Pro Leu  
 1 5 10 15  
 Gly Val Cys Lys Met Ser Leu Phe Tyr Lys His Asn His Asn Ser Asn  
 20 25 30  
 Lys Pro Gln Val Val Ala Ser Val  
 35 40

<210> 538  
 <211> 40  
 <212> PRT  
 <213> Homo sapiens

<400> 538  
 Met Lys Cys Ser Lys Val Leu Thr Gln Leu Ile Leu Phe Thr Pro Leu  
 1 5 10 15  
 Gly Val Cys Lys Met Ser Leu Phe Tyr Lys His Asn His Asn Ser Asn  
 20 25 30  
 Lys Pro Gln Val Val Ala Ser Val  
 35 40

<210> 539  
 <211> 195  
 <212> PRT  
 <213> Homo sapiens

<400> 539  
 Arg Gln Ala Val Ile Val Cys Arg Arg Arg Phe Val Met Gly Pro Val  
 1 5 10 15  
 Arg Leu Gly Ile Leu Leu Phe Leu Phe Leu Ala Val His Glu Ala Trp  
 20 25 30

Ala Gly Met Leu Lys Glu Glu Asp Asp Asp Thr Glu Arg Leu Pro Ser  
                   35                                  40                                  45  
 Lys Cys Glu Val Cys Lys Leu Leu Ser Thr Glu Leu Gln Ala Glu Leu  
                   50                                  55                                  60  
 Ser Arg Thr Gly Arg Ser Arg Glu Val Leu Glu Leu Gly Gln Val Leu  
                   65                                  70                                  75                                  80  
 Asp Thr Gly Lys Arg Lys Arg His Val Pro Tyr Ser Val Ser Glu Thr  
                                   85                                  90                                  95  
 Arg Leu Glu Glu Ala Leu Glu Asn Leu Cys Glu Arg Ile Leu Asp Tyr  
                                   100                                  105                                  110  
 Ser Val His Ala Glu Arg Lys Gly Ser Leu Arg Tyr Ala Lys Gly Gln  
                                   115                                  120                                  125  
 Ser Gln Thr Met Ala Thr Leu Lys Gly Leu Val Gln Lys Gly Val Lys  
                                   130                                  135                                  140  
 Val Asp Leu Gly Ile Pro Leu Glu Leu Trp Asp Glu Pro Ser Val Glu  
                                   145                                  150                                  155                                  160  
 Val Thr Tyr Leu Lys Lys Gln Cys Glu Thr Met Leu Glu Arg Gly Gly  
                                   165                                  170                                  175  
 Arg Gly Gly Arg Gly Arg Gly Arg Gln Asp Asp Gln Asp Arg Lys Pro  
                                   180                                  185                                  190  
 Pro Gln Thr  
                                   195

&lt;210&gt; 540

&lt;211&gt; 68

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (14)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 540

Trp Pro Thr Val Ala Ser Pro Arg Thr Ala Ser Arg Pro Xaa Gly Pro  
                   1                                  5                                  10                                  15

Cys Gln Asn Cys Ala Cys Trp Thr Thr Ser Gly Ala Gly Cys Arg Pro  
                                   20                                  25                                  30

Gly Gln Thr Ser Met Pro Pro Trp Thr Thr Gly Pro Arg Cys Cys Thr  
                                   35                                  40                                  45

Ser Gln Pro Pro Thr Gly Ser Ala Arg Arg Leu Pro Cys Cys Trp Asn  
                   50                                  55                                  60

Thr Glu Pro Ala  
                   65

<210> 541  
 <211> 201  
 <212> PRT  
 <213> Homo sapiens

<400> 541  
 Arg Gln Ala Val Ile Val Cys Arg Arg Arg Phe Val Met Gly Pro Val  
     1                    5                    10                    15  
 Arg Leu Gly Ile Leu Leu Phe Leu Phe Leu Ala Val His Glu Ala Trp  
                     20                    25                    30  
 Ala Gly Met Leu Lys Glu Glu Asp Asp Asp Thr Glu Arg Leu Pro Ser  
                     35                    40                    45  
 Lys Cys Glu Val Cys Lys Leu Leu Ser Thr Glu Leu Gln Ala Glu Leu  
                     50                    55                    60  
 Ser Arg Thr Gly Arg Ser Arg Glu Val Leu Glu Leu Gly Gln Val Leu  
                     65                    70                    75                    80  
 Asp Thr Gly Lys Arg Lys Arg His Val Pro Tyr Ser Val Ser Glu Thr  
                     85                    90                    95  
 Arg Leu Glu Glu Ala Leu Glu Asn Leu Cys Glu Arg Ile Leu Asp Tyr  
                     100                    105                    110  
 Ser Val His Ala Glu Arg Lys Gly Ser Leu Arg Tyr Ala Lys Gly Gln  
                     115                    120                    125  
 Ser Gln Thr Met Ala Thr Leu Lys Gly Leu Val Gln Lys Gly Val Lys  
                     130                    135                    140  
 Val Asp Leu Gly Ile Pro Leu Glu Leu Trp Asp Glu Pro Ser Val Glu  
                     145                    150                    155                    160  
 Val Thr Tyr Leu Lys Lys Gln Cys Glu Thr Met Leu Glu Glu Glu Glu  
                     165                    170                    175  
 Glu Glu Glu Glu Glu Glu Gly Gly Asp Lys Met Thr Lys Thr Gly Ser  
                     180                    185                    190  
 His Pro Lys Leu Asp Arg Glu Asp Leu  
                     195                    200

<210> 542  
 <211> 15  
 <212> PRT  
 <213> Homo sapiens

<400> 542  
 Met Pro Pro Arg Ala Ala Trp Ala Trp Leu Leu Cys Gly Ala Ser  
     1                    5                    10                    15

<210> 543  
 <211> 15  
 <212> PRT  
 <213> Homo sapiens

<400> 543  
 Met Pro Pro Arg Ala Ala Trp Ala Trp Leu Leu Cys Gly Ala Ser  
           1                          5                          10                          15

<210> 544  
 <211> 116  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (7)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (16)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 544  
 Ser Gln Leu Leu Arg Arg Xaa Arg Gln Glu Asp Cys Leu Ser Pro Xaa  
           1                          5                          10                          15

Gly Gly Ser Cys Ser Glu Pro Arg Leu Arg His Cys Thr Pro Ala Trp  
                           20                          25                          30

Val Thr Glu Arg Asp Ser Val Ser Lys Lys Lys Lys Lys Thr Ser Glu  
                           35                          40                          45

Val Gly Ala Val Pro Tyr Phe Cys Pro Thr Pro Ile Lys Arg Ile Pro  
           50                          55                          60

Lys Thr Thr Cys Gly Asn Leu Ile Ile Leu Ser Asn Leu Leu Phe Gly  
           65                          70                          75                          80

Gln Asp Trp His Leu Pro Cys Phe Ser Leu Leu Leu Ala Val Lys His  
                           85                          90                          95

Gly Phe Lys Glu Glu Cys Phe Ser Glu Phe Thr Leu Tyr Ile Ser Asp  
                           100                          105                          110

Leu Glu Val Ile  
           115

<210> 545  
 <211> 51  
 <212> PRT  
 <213> Homo sapiens

<400> 545

Met Ile Leu Ile Met Ser Met Asp Ser Val Lys Leu Val Leu Gly Trp  
 1 5 10 15  
 Pro Leu Trp Val Leu Cys Phe Trp Gln Ala Ala Trp Cys Phe Lys Lys  
 20 25 30  
 Ala Phe Glu Trp Gln Gln Thr Leu Pro Leu Tyr Ser Thr Glu Met Val  
 35 40 45  
 Asn Lys Pro  
 50

<210> 546  
 <211> 51  
 <212> PRT  
 <213> Homo sapiens

<400> 546  
 Met Ile Leu Ile Met Ser Met Asp Ser Val Lys Leu Val Leu Gly Trp  
 1 5 10 15  
 Pro Leu Trp Val Leu Cys Phe Trp Gln Ala Ala Trp Cys Phe Lys Lys  
 20 25 30  
 Ala Phe Glu Trp Gln Gln Thr Leu Pro Leu Tyr Ser Thr Glu Met Val  
 35 40 45  
 Asn Lys Pro  
 50

<210> 547  
 <211> 69  
 <212> PRT  
 <213> Homo sapiens

<400> 547  
 Met Ala Ala Ala Arg Asn Leu Arg Thr Ala Leu Ile Phe Gly Gly Phe  
 1 5 10 15  
 Ile Ser Met Val Gly Ala Ala Phe Tyr Pro Ile Tyr Phe Arg Pro Leu  
 20 25 30  
 Met Arg Leu Glu Glu Tyr Gln Lys Glu Gln Ala Val Asn Arg Ala Gly  
 35 40 45  
 Ile Val Gln Glu Asp Val Gln Pro Pro Gly Leu Lys Val Trp Ser Asp  
 50 55 60  
 Pro Phe Gly Arg Lys  
 65

<210> 548  
 <211> 69  
 <212> PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 548

Met Ala Ala Ala Arg Asn Leu Arg Thr Ala Leu Ile Phe Gly Gly Phe  
 1 5 10 15

Ile Ser Met Val Gly Ala Ala Phe Tyr Pro Ile Tyr Phe Arg Pro Leu  
 20 25 30

Met Arg Leu Glu Glu Tyr Gln Lys Glu Gln Ala Val Asn Arg Ala Gly  
 35 40 45

Ile Val Gln Glu Asp Val Gln Pro Pro Gly Leu Lys Val Trp Ser Asp  
 50 55 60

Pro Phe Gly Arg Lys  
 65

&lt;210&gt; 549

&lt;211&gt; 79

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 549

Ser Gly Trp Gln Val Pro Ser Ser Val Lys His Leu Pro Tyr Asp Asn  
 1 5 10 15

Leu Arg Ser His Cys Val Ala Asp Glu Gly Glu Thr Glu Val Glu Gly  
 20 25 30

Thr Arg Ala Thr Trp Val Glu His Ser Gly Arg Pro Gly Val Gly Ser  
 35 40 45

Gly Arg Pro Pro Gly Thr Ser Leu Thr Thr Leu Pro Leu Leu Leu Thr  
 50 55 60

His Leu Ser Leu Thr Cys Pro Leu Gly Gly Asp Phe Ser Lys Arg  
 65 70 75

&lt;210&gt; 550

&lt;211&gt; 89

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 550

Met Pro Val Pro Leu Leu Ala Ser Ala Ala Trp Cys His Leu Cys Ala  
 1 5 10 15

Gly Ala Leu Pro Ala Trp Leu Trp Leu Pro Trp Arg Ala Ala Ala Ala  
 20 25 30

Gln Trp His Val Cys Ala Ser His Cys Leu Pro Leu His Pro Ala Phe  
 35 40 45

Ser Ala Leu Gly Pro His Pro Asp Pro Gly Arg Ala Gly Pro Gly Ala  
 50 55 60



Ala Pro Arg Asp Cys Ala His Pro Glu Leu His Pro Leu Cys Leu Pro  
 65 70 75 80

Arg Trp Ser Leu Gln Leu Leu Pro Arg  
 85

<210> 551

<211> 21

<212> PRT

<213> Homo sapiens

<400> 551

Pro Trp Ala Ser Ser His Leu Gly Pro Arg Pro Tyr Val His Gly Leu  
 1 5 10 15

Ala Pro Ser Gly Pro  
 20

<210> 552

<211> 6

<212> PRT

<213> Homo sapiens

<400> 552

Pro Trp Pro Pro Leu Val  
 1 5

<210> 553

<211> 6

<212> PRT

<213> Homo sapiens

<400> 553

Pro Trp Pro Pro Leu Val  
 1 5

<210> 554

<211> 52

<212> PRT

<213> Homo sapiens

<400> 554

Asp Ile Leu Asn Leu Tyr Cys Thr Phe Tyr Leu Arg Gly Ser Ser Phe  
 1 5 10 15

Thr Cys Val Phe Ile Cys Val Tyr Leu Ser Tyr Ser Lys Arg Ser Arg  
 20 25 30

Glu Ser Pro Cys Pro Arg Ser Ser Ile Leu Arg Ser Glu Asp Val Gln  
 35 40 45

Asn Ser Ser Arg  
50

<210> 555  
<211> 39  
<212> PRT  
<213> Homo sapiens

<400> 555  
Met Gly Gly Asn Val Leu Ile Phe His Phe Arg Cys Leu Trp Lys Cys  
1 5 10 15  
Trp Gly Arg Val Arg Gly Leu Phe Leu Ser Gly Gly Pro Leu Thr Gln  
20 25 30  
Ser Ile Phe Asn Ser Leu Phe  
35

<210> 556  
<211> 12  
<212> PRT  
<213> Homo sapiens

<400> 556  
Gly Gly Asn Val Leu Ile Phe His Phe Arg Cys Leu  
1 5 10

<210> 557  
<211> 70  
<212> PRT  
<213> Homo sapiens

<400> 557  
Met Ser His Cys Thr Trp Pro Leu Asp Tyr Ser Phe Leu Phe Met Ser  
1 5 10 15  
Cys Ala Ser Ile Cys Gly Gln His Gly Ala Ser Val Gly Asn Thr Gly  
20 25 30  
Arg Lys Gln Val Gln Ile Trp Leu Gly Leu Leu Ala Trp Gln Leu Gly  
35 40 45  
Lys Pro Pro Leu Leu Trp Leu Leu Pro Arg Leu Phe Met Thr Val Ala  
50 55 60  
Ala His Gln Leu Gln Leu  
65 70

<210> 558  
<211> 70  
<212> PRT  
<213> Homo sapiens

&lt;400&gt; 558

Met Ser His Cys Thr Trp Pro Leu Asp Tyr Ser Phe Leu Phe Met Ser  
 1 5 10 15

Cys Ala Ser Ile Cys Gly Gln His Gly Ala Ser Val Gly Asn Thr Gly  
 20 25 30

Arg Lys Gln Val Gln Ile Trp Leu Gly Leu Leu Ala Trp Gln Leu Gly  
 35 40 45

Lys Pro Pro Leu Leu Trp Leu Leu Pro Arg Leu Phe Met Thr Val Ala  
 50 55 60

Ala His Gln Leu Gln Leu  
 65 70

&lt;210&gt; 559

&lt;211&gt; 62

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 559

Val Tyr Gln Arg Lys Ser Thr Val Val Leu Gly Gly Phe Leu Leu Trp  
 1 5 10 15

Asp Ile Asp Phe Leu Phe Phe Phe Arg Asn Ile Val Cys Cys Asn Leu  
 20 25 30

Asn Lys Asn Tyr Asp Ile Leu Arg Tyr Phe Ile Asp Lys Pro Asn Lys  
 35 40 45

Asn Ile Cys Phe Tyr Phe Lys Val Asn Val Phe Leu Phe Ser  
 50 55 60

&lt;210&gt; 560

&lt;211&gt; 47

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 560

Met Leu Arg Phe Ser Ser Ser Leu Leu Glu Cys Leu Leu Ser Pro Leu  
 1 5 10 15

Cys Leu Thr Asp Ala Thr Gly His His Leu Asp His Pro Ile Leu Val  
 20 25 30

Pro Val Gln Val Gln Lys Arg Asn Asn Val Leu Lys Phe Thr Ser  
 35 40 45

&lt;210&gt; 561

&lt;211&gt; 49

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 561

Met Leu Ile Thr Ile Ser Leu Glu Leu Leu Leu Arg Leu Val Gly Ala  
 1 5 10 15

Ala Leu Gln Glu Lys Gln Gln Pro Leu Ser Leu Pro Ser Cys Gly Glu  
 20 25 30

Gln Gly Gly Asp Glu Arg Tyr Leu Gly Arg Pro Gly Lys Ser Leu Lys  
 35 40 45

Asn

&lt;210&gt; 562

&lt;211&gt; 49

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 562

Met Leu Ile Thr Ile Ser Leu Glu Leu Leu Leu Arg Leu Val Gly Ala  
 1 5 10 15

Ala Leu Gln Glu Lys Gln Gln Pro Leu Ser Leu Pro Ser Cys Gly Glu  
 20 25 30

Gln Gly Gly Asp Glu Arg Tyr Leu Gly Arg Pro Gly Lys Ser Leu Lys  
 35 40 45

Asn

&lt;210&gt; 563

&lt;211&gt; 47

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (25)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 563

Met Leu Ile Phe Ser Phe Leu Ser Phe Trp Phe Phe Gln Ser Cys Gln  
 1 5 10 15

Gly Phe Ile Tyr Phe Met Ser Ile Xaa Glu Glu Pro Val Ala Asp Phe  
 20 25 30

Val His Leu Tyr Cys Val Phe Tyr Phe Gln Gly Cys Ser Tyr Leu  
 35 40 45

&lt;210&gt; 564

&lt;211&gt; 128

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 564

Phe Ser Asn Thr Trp Ser Phe Pro Lys Asp Ala Phe Tyr Thr Asp Phe  
 1 5 10 15  
 Tyr Leu Lys Ser Ile Val Val Arg Glu Tyr Cys Val Phe Cys Ser Asn  
 20 25 30  
 Pro Leu Lys Tyr Ile Glu Thr Cys Leu Ile Cys Lys Tyr Arg Phe Ser  
 35 40 45  
 Tyr Phe Ser Ile Cys Asp Trp Lys Asn Ile Asn Leu Thr Ile Trp Gly  
 50 55 60  
 Tyr Ser Ile His Thr Ile His Thr Asn Ile Tyr Val Phe Ser Val Leu  
 65 70 75 80  
 Gln Asn Phe Tyr Ile Phe Pro Gly Ile Cys Leu Leu Ala Ser Leu Ile  
 85 90 95  
 Thr Glu Arg Cys Thr Ile Leu Ser Cys Thr Phe Phe Cys Cys Ser Leu  
 100 105 110  
 Ile Phe Leu Ser Tyr Pro Tyr Gly Asn Cys Ile Lys Cys Ile Pro Ile  
 115 120 125

&lt;210&gt; 565

&lt;211&gt; 47

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 565

Met Leu Ile Phe Ser Phe Leu Ser Phe Trp Phe Phe Gln Ser Cys Gln  
 1 5 10 15  
 Gly Phe Ile Tyr Phe Met Ser Ile Phe Glu Glu Pro Val Ala Asp Phe  
 20 25 30  
 Val His Leu Tyr Cys Val Phe Tyr Phe Gln Gly Cys Ser Tyr Leu  
 35 40 45

&lt;210&gt; 566

&lt;211&gt; 34

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 566

Pro Cys Ser Trp Leu Arg Ala Val Thr Leu Cys Gln Asn Leu His Trp  
 1 5 10 15  
 Ala Cys Thr Ser Cys His Cys Asn Cys Pro Cys Gln Cys Pro Gln Leu

20

25

30

Leu Phe

&lt;210&gt; 567

&lt;211&gt; 193

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 567

Met Cys Leu Leu Phe Leu Leu Pro Arg Phe Pro Val Ser Trp Arg Ala  
 1 5 10 15

Gly Val Asp Gly Ala Ala Pro Ser Ser Gln Asp Leu Trp Arg Ile Arg  
 20 25 30

Ser Pro Cys Gly Asp Cys Glu Gly Phe Asp Val His Ile Met Asp Asp  
 35 40 45

Met Ile Lys Arg Ala Leu Asp Phe Arg Glu Ser Arg Glu Ala Glu Pro  
 50 55 60

His Pro Leu Trp Glu Tyr Pro Cys Arg Ser Leu Ser Glu Pro Trp Gln  
 65 70 75 80

Ile Leu Thr Phe Asp Phe Gln Gln Pro Val Pro Leu Gln Pro Leu Cys  
 85 90 95

Ala Glu Gly Thr Val Glu Leu Arg Arg Pro Gly Gln Ser His Ala Ala  
 100 105 110

Val Leu Trp Met Glu Tyr His Leu Thr Pro Glu Cys Thr Leu Ser Thr  
 115 120 125

Gly Leu Leu Glu Pro Ala Asp Pro Glu Gly Gly Cys Cys Trp Asn Pro  
 130 135 140

His Cys Lys Gln Ala Val Tyr Phe Phe Ser Pro Ala Pro Asp Pro Arg  
 145 150 155 160

Ala Leu Leu Gly Gly Pro Arg Thr Val Ser Tyr Ala Val Glu Phe His  
 165 170 175

Pro Asp Thr Gly Asp Ile Ile Met Glu Phe Arg His Ala Asp Thr Pro  
 180 185 190

Asp

&lt;210&gt; 568

&lt;211&gt; 138

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 568

Met Cys Leu Leu Phe Leu Leu Pro Arg Phe Pro Val Ser Trp Arg Ala  
 1 5 10 15  
 Gly Val Asp Gly Ala Ala Pro Ser Ser Gln Asp Leu Trp Arg Ile Arg  
 20 25 30  
 Ser Pro Cys Gly Asp Cys Glu Gly Phe Asp Val His Ile Met Asp Asp  
 35 40 45  
 Met Ile Lys Val Gly Arg Ala Thr Leu Cys Ile Val Pro Pro Thr Cys  
 50 55 60  
 Ser Cys Ile Ala Gly Leu Ser Gln Gly Pro Ser Leu Gly Ser Thr Gly  
 65 70 75 80  
 Ser Ser Val Gly Gly Ser Glu Val Arg Cys Cys His Phe Val Trp Phe  
 85 90 95  
 Asn Met Ser Ile Ala Trp Tyr Gln Pro Cys Ser Trp Leu Arg Ala Val  
 100 105 110  
 Thr Leu Cys Gln Asn Leu His Trp Ala Cys Thr Ser Cys His Cys Asn  
 115 120 125  
 Cys Pro Cys Gln Cys Pro Gln Leu Leu Phe  
 130 135

<210> 569  
 <211> 48  
 <212> PRT  
 <213> Homo sapiens

<400> 569  
 Met Arg Gly Asp Ala Pro Pro Ile Asn Leu Gly Cys Leu Pro Phe Phe  
 1 5 10 15  
 Leu Cys Leu Phe Phe Phe Cys His Leu Lys Tyr Tyr Leu Ser Leu Leu  
 20 25 30  
 Gly Asn Leu Arg Pro Ile Asp Glu Val Tyr Met Cys Leu Ser Asp Ile  
 35 40 45

<210> 570  
 <211> 17  
 <212> PRT  
 <213> Homo sapiens

<400> 570  
 Phe Leu Ser Leu Leu Phe Phe Phe Leu Ala Phe Ser Phe Phe Thr Glu  
 1 5 10 15

Ala

<210> 571  
 <211> 48  
 <212> PRT  
 <213> Homo sapiens

<400> 571  
 Met Arg Gly Asp Ala Pro Pro Ile Asn Leu Gly Cys Leu Pro Phe Phe  
           1                          5                          10                          15  
 Leu Cys Leu Phe Phe Phe Cys His Leu Lys Tyr Tyr Leu Ser Leu Leu  
                           20                          25                          30  
 Gly Asn Leu Arg Pro Ile Asp Glu Val Tyr Met Cys Leu Ser Asp Ile  
                   35                          40                          45

<210> 572  
 <211> 184  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (153)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (178)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (181)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (182)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 572  
 Val Arg Met Lys Tyr Leu Phe Phe Ser Trp Leu Val Val Phe Val Gly  
           1                          5                          10                          15  
 Ser Trp Ile Ile Tyr Val Gln Tyr Ser Thr Tyr Thr Glu Leu Cys Arg  
                           20                          25                          30  
 Gly Lys Asp Cys Lys Lys Ile Ile Cys Asp Lys Tyr Lys Thr Gly Val  
                   35                          40                          45  
 Ile Asp Gly Pro Ala Cys Asn Ser Leu Cys Val Thr Glu Thr Leu Tyr  
           50                          55                          60



Phe Gly Lys Cys Leu Ser Thr Lys Pro Asn Asn Gln Met Tyr Leu Gly  
 65 70 75 80

Ile Trp Asp Asn Leu Pro Gly Val Val Lys Cys Gln Met Glu Gln Ala  
 85 90 95

Leu His Leu Asp Phe Gly Thr Glu Leu Glu Pro Arg Lys Glu Ile Val  
 100 105 110

Leu Phe Asp Lys Pro Thr Arg Gly Thr Thr Val Gln Lys Phe Lys Glu  
 115 120 125

Met Val Tyr Ser Leu Phe Lys Ala Lys Leu Gly Asp Gln Gly Asn Leu  
 130 135 140

Ser Glu Leu Val Asn Leu Ile Leu Xaa Val Ala Asp Gly Asp Lys Asp  
 145 150 155 160

Gly Gln Val Ser Leu Gly Glu Ala Lys Ser Ala Trp Ala Leu Leu Gln  
 165 170 175

Leu Xaa Glu Phe Xaa Xaa His Gly  
 180

<210> 573

<211> 3

<212> PRT

<213> Homo sapiens

<400> 573

Tyr Thr Val

1

<210> 574

<211> 403

<212> PRT

<213> Homo sapiens

<400> 574

Met Lys Tyr Leu Phe Phe Ser Trp Leu Val Val Phe Val Gly Ser Trp  
 1 5 10 15

Ile Ile Tyr Val Gln Tyr Ser Thr Tyr Thr Glu Leu Cys Arg Gly Lys  
 20 25 30

Asp Cys Lys Lys Ile Ile Cys Asp Lys Tyr Lys Thr Gly Val Ile Asp  
 35 40 45

Gly Pro Ala Cys Asn Ser Leu Cys Val Thr Glu Thr Leu Tyr Phe Gly  
 50 55 60

Lys Cys Leu Ser Thr Lys Pro Asn Asn Gln Met Tyr Leu Gly Ile Trp  
 65 70 75 80

Asp Asn Leu Pro Gly Val Val Lys Cys Gln Met Glu Gln Ala Leu His

85					90					95					
Leu	Asp	Phe	Gly	Thr	Glu	Leu	Glu	Pro	Arg	Lys	Glu	Ile	Val	Leu	Phe
			100					105					110		
Asp	Lys	Pro	Thr	Arg	Gly	Thr	Thr	Val	Gln	Lys	Phe	Lys	Glu	Met	Val
		115					120					125			
Tyr	Ser	Leu	Phe	Lys	Ala	Lys	Leu	Gly	Asp	Gln	Gly	Asn	Leu	Ser	Glu
	130					135					140				
Leu	Val	Asn	Leu	Ile	Leu	Thr	Val	Ala	Asp	Gly	Asp	Lys	Asp	Gly	Gln
145					150					155					160
Val	Ser	Leu	Gly	Glu	Ala	Lys	Ser	Ala	Trp	Ala	Leu	Leu	Gln	Leu	Asn
				165					170					175	
Glu	Phe	Leu	Leu	Met	Val	Ile	Leu	Gln	Asp	Lys	Glu	His	Thr	Pro	Lys
			180					185					190		
Leu	Met	Gly	Phe	Cys	Gly	Asp	Leu	Tyr	Val	Met	Glu	Ser	Val	Glu	Tyr
		195					200					205			
Thr	Ser	Leu	Tyr	Gly	Ile	Ser	Leu	Pro	Trp	Val	Ile	Glu	Leu	Phe	Ile
	210					215					220				
Pro	Ser	Gly	Phe	Arg	Arg	Ser	Met	Asp	Gln	Leu	Phe	Thr	Pro	Ser	Trp
225					230					235					240
Pro	Arg	Lys	Ala	Lys	Ile	Ala	Ile	Gly	Leu	Leu	Glu	Phe	Val	Glu	Asp
				245					250					255	
Val	Phe	His	Gly	Pro	Tyr	Gly	Asn	Phe	Leu	Met	Cys	Asp	Thr	Ser	Ala
			260					265					270		
Lys	Asn	Leu	Gly	Tyr	Asn	Asp	Lys	Tyr	Asp	Leu	Lys	Met	Val	Asp	Met
		275					280					285			
Arg	Lys	Ile	Val	Pro	Glu	Thr	Asn	Leu	Lys	Glu	Leu	Ile	Lys	Asp	Arg
		290				295					300				
His	Cys	Glu	Ser	Asp	Leu	Asp	Cys	Val	Tyr	Gly	Thr	Asp	Cys	Arg	Thr
305					310					315					320
Ser	Cys	Asp	Gln	Ser	Thr	Met	Lys	Cys	Thr	Ser	Glu	Val	Ile	Gln	Pro
				325					330					335	
Asn	Leu	Ala	Lys	Ala	Cys	Gln	Leu	Leu	Lys	Asp	Tyr	Leu	Leu	Arg	Gly
			340				345					350			
Ala	Pro	Ser	Glu	Ile	Arg	Glu	Glu	Leu	Glu	Lys	Gln	Leu	Tyr	Ser	Cys
		355					360					365			
Ile	Ala	Leu	Lys	Val	Thr	Ala	Asn	Gln	Met	Glu	Met	Glu	His	Ser	Leu
	370					375					380				
Ile	Leu	Asn	Asn	Leu	Lys	Thr	Leu	Leu	Trp	Lys	Lys	Ile	Ser	Tyr	Thr
385					390					395					400
Asn	Asp	Ser													

<210> 575  
 <211> 60  
 <212> PRT  
 <213> Homo sapiens

<400> 575  
 Met Ser Arg Phe Ser Gln Asn Phe Arg Gly Lys Glu Asp His Ile Val  
 1 5 10 15  
 Phe Leu Phe Cys Phe Asn Glu Ile Phe Phe Leu Leu Leu Met Leu Leu  
 20 25 30  
 Val Phe Pro Trp Leu Leu Ser Lys Ala Val Ser Gly Phe Ala Glu Arg  
 35 40 45  
 Leu Glu Met Thr Thr Ile Phe Arg Val Ser Arg Ser  
 50 55 60

<210> 576  
 <211> 60  
 <212> PRT  
 <213> Homo sapiens

<400> 576  
 Met Ser Arg Phe Ser Gln Asn Phe Arg Gly Lys Glu Asp His Ile Val  
 1 5 10 15  
 Phe Leu Phe Cys Phe Asn Glu Ile Phe Phe Leu Leu Leu Met Leu Leu  
 20 25 30  
 Val Phe Pro Trp Leu Leu Ser Lys Ala Val Ser Gly Phe Ala Glu Arg  
 35 40 45  
 Leu Glu Met Thr Thr Ile Phe Arg Val Ser Arg Ser  
 50 55 60

<210> 577  
 <211> 127  
 <212> PRT  
 <213> Homo sapiens

<400> 577  
 Met Gly Gln Val Trp Arg Val Pro Pro Leu Leu Leu Ser Val Gln Val  
 1 5 10 15  
 Phe Leu Thr Met Ala His Ala Phe His Gln Ala Pro Glu Leu Gln Trp  
 20 25 30  
 Leu Gly Leu Trp Phe Trp Val Arg Leu Phe Ala Gly Gly Asp Gly Gly  
 35 40 45  
 Leu His Leu Asn Ile Ser Ser Val Thr Leu Pro Leu Leu His Gly Lys

<210> 580

<211> 61  
<212> PRT  
<213> Homo sapiens

<400> 580  
Met Lys Ser Ala Leu His Arg Asp Ile Cys Ile Leu Met Leu Thr Ala  
1 5 10 15  
Ala Leu Phe Thr Ile Ala Lys Thr Glu Lys Gln His Lys Cys Pro Ser  
20 25 30  
Ile Asp Glu Gln Ile Asn Asn Leu Gln Tyr Ile Cys Thr Met Glu Tyr  
35 40 45  
His Ser Ala Leu Gln Lys Glu Met Leu Leu Tyr Leu Gln  
50 55 60

<210> 581  
<211> 61  
<212> PRT  
<213> Homo sapiens

<400> 581  
Met Lys Ser Ala Leu His Arg Asp Ile Cys Ile Leu Met Leu Thr Ala  
1 5 10 15  
Ala Leu Phe Thr Ile Ala Lys Thr Glu Lys Gln His Lys Cys Pro Ser  
20 25 30  
Ile Asp Glu Gln Ile Asn Asn Leu Gln Tyr Ile Cys Thr Met Glu Tyr  
35 40 45  
His Ser Ala Leu Gln Lys Glu Met Leu Leu Tyr Leu Gln  
50 55 60

<210> 582  
<211> 61  
<212> PRT  
<213> Homo sapiens

<400> 582  
Met Lys Ser Ala Leu His Arg Asp Ile Cys Ile Leu Met Leu Thr Ala  
1 5 10 15  
Ala Leu Phe Thr Ile Ala Lys Thr Glu Lys Gln His Lys Cys Pro Ser  
20 25 30  
Ile Asp Glu Gln Ile Asn Asn Leu Gln Tyr Ile Cys Thr Met Glu Tyr  
35 40 45  
His Ser Ala Leu Gln Lys Glu Met Leu Leu Tyr Leu Gln  
50 55 60

<210> 583

<211> 41  
 <212> PRT  
 <213> Homo sapiens

<400> 583  
 Met Leu Val Ser Met Cys Met Gly Leu Leu Phe Leu Gln Val Gly Lys  
           1                  5                  10                  15  
 Gln Cys Ile Ala Phe Phe Tyr Thr Glu Ser Thr Arg Arg Pro Lys His  
                   20                  25                  30  
 Leu Lys Thr Met Gly Ser Gly Tyr Ala  
           35                  40

<210> 584  
 <211> 41  
 <212> PRT  
 <213> Homo sapiens

<400> 584  
 Met Leu Val Ser Met Cys Met Gly Leu Leu Phe Leu Gln Val Gly Lys  
           1                  5                  10                  15  
 Gln Cys Ile Ala Phe Phe Tyr Thr Glu Ser Thr Arg Arg Pro Lys His  
                   20                  25                  30  
 Leu Lys Thr Met Gly Ser Gly Tyr Ala  
           35                  40

<210> 585  
 <211> 241  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (58)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 585  
 Met Phe Lys Leu Arg Gln Met Arg Val Glu Lys Phe Ile Tyr Glu Asn  
           1                  5                  10                  15  
 His Pro Asp Val Phe Ser Asp Ser Ser Met Asp His Phe Gln Lys Phe  
                   20                  25                  30  
 Leu Pro Thr Val Gly Gly Gln Leu Gly Thr Ala Gly Gln Gly Phe Ser  
           35                  40                  45  
 Tyr Ser Lys Ser Asn Gly Arg Gly Gly Xaa Gln Ala Gly Gly Ser Gly  
           50                  55                  60  
 Ser Ala Gly Gln Tyr Gly Ser Asp Gln Gln His His Leu Gly Ser Gly  
           65                  70                  75                  80  
 Ser Gly Ala Gly Gly Thr Gly Gly Pro Ala Gly Gln Ala Gly Arg Gly

85 90 95  
 Gly Ala Ala Gly Thr Ala Gly Val Gly Glu Thr Gly Ser Gly Asp Gln  
 100 105 110  
 Ala Gly Gly Glu Gly Lys His Ile Thr Val Phe Lys Thr Tyr Ile Ser  
 115 120 125  
 Pro Trp Glu Arg Ala Met Gly Val Asp Pro Gln Gln Lys Met Glu Leu  
 130 135 140  
 Gly Ile Asp Leu Leu Ala Tyr Gly Ala Lys Ala Glu Leu Pro Lys Tyr  
 145 150 155 160  
 Lys Ser Phe Asn Arg Thr Ala Met Pro Tyr Gly Gly Tyr Glu Lys Ala  
 165 170 175  
 Ser Lys Arg Met Thr Phe Gln Met Pro Lys Phe Asp Leu Gly Pro Leu  
 180 185 190  
 Leu Ser Glu Pro Leu Val Leu Tyr Asn Gln Asn Leu Ser Asn Arg Pro  
 195 200 205  
 Ser Phe Asn Arg Thr Pro Ile Pro Trp Leu Ser Ser Gly Glu Pro Val  
 210 215 220  
 Asp Tyr Asn Val Asp Ile Gly Ile Pro Leu Asp Gly Glu Thr Glu Glu  
 225 230 235 240  
 Leu

&lt;210&gt; 586

&lt;211&gt; 241

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 586

Met Phe Lys Leu Arg Gln Met Arg Val Glu Lys Phe Ile Tyr Glu Asn  
 1 5 10 15  
 His Pro Asp Val Phe Ser Asp Ser Ser Met Asp His Phe Gln Lys Phe  
 20 25 30  
 Leu Pro Thr Val Gly Gly Gln Leu Gly Thr Ala Gly Gln Gly Phe Ser  
 35 40 45  
 Tyr Ser Lys Ser Asn Gly Arg Gly Gly Ser Gln Ala Gly Gly Ser Gly  
 50 55 60  
 Ser Ala Gly Gln Tyr Gly Ser Asp Gln Gln His His Leu Gly Ser Gly  
 65 70 75 80  
 Ser Gly Ala Gly Gly Thr Gly Gly Pro Ala Gly Gln Ala Gly Arg Gly  
 85 90 95  
 Gly Ala Ala Gly Thr Ala Gly Val Gly Glu Thr Gly Ser Gly Asp Gln  
 100 105 110

Ala Gly Gly Glu Gly Lys His Ile Thr Val Phe Lys Thr Tyr Ile Ser  
115 120 125

Pro Trp Glu Arg Ala Met Gly Val Asp Pro Gln Gln Lys Met Glu Leu  
130 135 140

Gly Ile Asp Leu Leu Ala Tyr Gly Ala Lys Ala Glu Leu Pro Lys Tyr  
145 150 155 160

Lys Ser Phe Asn Arg Thr Ala Met Pro Tyr Gly Gly Tyr Glu Lys Ala  
165 170 175

Ser Lys Arg Met Thr Phe Gln Met Pro Lys Phe Asp Leu Gly Pro Leu  
180 185 190

Leu Ser Glu Pro Leu Val Leu Tyr Asn Gln Asn Leu Ser Asn Arg Pro  
195 200 205

Ser Phe Asn Arg Thr Pro Ile Pro Trp Leu Ser Ser Gly Glu Pro Val  
210 215 220

Asp Tyr Asn Val Asp Ile Gly Ile Pro Leu Asp Gly Glu Thr Glu Glu  
225 230 235 240

Leu

<210> 587

<211> 17

<212> PRT

<213> Homo sapiens

<400> 587

Arg Phe Pro Ile Ser Pro His Pro Tyr Gln His Ala Phe Leu Phe Phe  
1 5 10 15

Phe

<210> 588

<211> 39

<212> PRT

<213> Homo sapiens

<400> 588

Leu Arg Val Ala Val Gly Leu Cys Pro Arg Asp Ala Leu Leu Leu Ser  
1 5 10 15

Pro Pro Arg Val Val Val Cys Gly Val Thr Asp Val Val Val Asp Lys  
20 25 30

Gly Val Gly Leu Leu Val Val  
35



<210> 589  
 <211> 23  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (5)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 589  
 Met Arg Val Thr Xaa Ser Ser His Pro Cys Gln Arg Leu Val Leu Gln  
           1                          5                          10                          15

Cys Ser Gly Phe Trp Leu Phe  
                           20

<210> 590  
 <211> 27  
 <212> PRT  
 <213> Homo sapiens

<400> 590  
 Met Arg Val Thr Val Ser Ser His Pro Cys Gln Arg Leu Val Leu Ser  
           1                          5                          10                          15

Val Phe Trp Leu Leu Ala Ile Leu Ile Gly Val  
                           20                          25

<210> 591  
 <211> 55  
 <212> PRT  
 <213> Homo sapiens

<400> 591  
 Met Glu Ser Ser Thr Gly Lys Ala Ser Pro Arg Cys His Ile His Cys  
           1                          5                          10                          15

Val Pro Pro Phe Pro Pro Pro Cys Pro Val Lys Arg Val Gly Arg Leu  
                           20                          25                          30

Phe Leu Phe Phe Gln His Phe Pro Gln Gly Thr Val Ile Ile Pro Leu  
                           35                          40                          45

Met Pro Ser Pro Pro Leu Asp  
           50                          55

<210> 592  
 <211> 314  
 <212> PRT  
 <213> Homo sapiens

<220>

&lt;221&gt; SITE

&lt;222&gt; (129)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 592

Tyr Ser Lys Thr His Ser Ile Lys Ser Ala Gln Pro Gly Val Pro Thr  
 1 5 10 15

Ser Ala Arg Ser Pro Arg Gln Pro Ser Pro Gly Pro Thr Pro Pro Pro  
 20 25 30

Phe Pro Gly Asn Arg Gly Thr Ala Leu Gly Gly Gly Ser Ile Arg Gln  
 35 40 45

Ser Pro Leu Ser Ser Ser Ser Pro Phe Ser Asn Arg Pro Pro Leu Pro  
 50 55 60

Pro Thr Pro Ser Arg Ala Leu Asp Asp Lys Pro Pro Pro Pro Pro Pro  
 65 70 75 80

Pro Val Gly Asn Arg Pro Ser Ile His Arg Glu Ala Val Pro Pro Pro  
 85 90 95

Pro Pro Gln Asn Asn Lys Pro Pro Val Pro Ser Thr Pro Arg Pro Ser  
 100 105 110

Ala Ala Ser Gln Ala Pro Pro Pro Pro Pro Pro Ser Arg Pro Gly  
 115 120 125

Xaa Pro Pro Leu Pro Pro Ser Ser Ser Gly Asn Asp Glu Thr Pro Arg  
 130 135 140

Leu Pro Gln Arg Asn Leu Ser Leu Ser Ser Ser Thr Pro Pro Leu Pro  
 145 150 155 160

Ser Pro Gly Arg Ser Gly Pro Leu Pro Pro Pro Pro Ser Glu Arg Pro  
 165 170 175

Pro Pro Pro Val Arg Asp Pro Pro Gly Arg Ser Gly Pro Leu Pro Pro  
 180 185 190

Pro Pro Pro Val Ser Arg Asn Gly Ser Thr Ser Arg Ala Leu Pro Ala  
 195 200 205

Thr Pro Gln Leu Pro Ser Arg Ser Gly Val Asp Ser Pro Arg Ser Gly  
 210 215 220

Pro Arg Pro Pro Leu Pro Pro Asp Arg Pro Ser Ala Gly Ala Pro Pro  
 225 230 235 240

Pro Pro Pro Pro Ser Thr Ser Ile Arg Asn Gly Phe Gln Asp Ser Pro  
 245 250 255

Cys Glu Asp Glu Trp Glu Ser Arg Phe Tyr Phe His Pro Ile Ser Asp  
 260 265 270

Leu Pro Pro Pro Glu Pro Tyr Val Gln Thr Thr Lys Ser Tyr Pro Ser  
 275 280 285

Lys Leu Ala Arg Asn Glu Ser Arg Ser Gly Ser Asn Arg Arg Glu Arg

290

295

300

Gly Ala Pro Pro Leu Pro Pro Ile Pro Arg  
 305 310

&lt;210&gt; 593

&lt;211&gt; 55

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 593

Met Glu Ser Ser Thr Gly Lys Ala Ser Pro Arg Cys His Ile His Cys  
 1 5 10 15

Val Pro Pro Phe Pro Pro Pro Cys Pro Val Lys Arg Val Gly Arg Leu  
 20 25 30

Phe Leu Phe Phe Gln His Phe Pro Gln Gly Thr Val Ile Ile Pro Leu  
 35 40 45

Met Pro Ser Pro Pro Leu Asp  
 50 55

&lt;210&gt; 594

&lt;211&gt; 53

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (23)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 594

Phe Ile Ile His Ser Ile Ser Pro Val Ala Leu Asn Pro Gln Ala His  
 1 5 10 15

Asp Leu Pro Phe Ser Leu Xaa Ser Cys Val Ser Val Phe Asn Leu Arg  
 20 25 30

Ser Phe Pro Thr Met Asp Ser Cys Thr Thr Leu Asn Glu Thr Ser Ile  
 35 40 45

Phe Gln Arg Arg Val  
 50

&lt;210&gt; 595

&lt;211&gt; 261

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 595

Gly Ile Phe Arg Ser Leu Arg Val Leu Phe Pro Leu Phe Ser Val Gly  
 1 5 10 15

Arg Pro Gln Phe Ala Arg Ser Leu Ser Ala Ala Pro Gln Leu Ser Asp  
                     20                    25                    30  
 Thr Ala Asp Thr Met Gly Phe Gly Asp Leu Lys Ser Pro Ala Gly Leu  
                     35                    40                    45  
 Gln Val Leu Asn Asp Tyr Leu Ala Asp Lys Ser Tyr Ile Glu Gly Tyr  
                     50                    55                    60  
 Val Pro Ser Gln Ala Asp Val Ala Val Phe Glu Ala Val Ser Ser Pro  
                     65                    70                    75                    80  
 Pro Pro Ala Asp Leu Cys His Ala Leu Arg Trp Tyr Asn His Ile Lys  
                     85                    90                    95  
 Ser Tyr Glu Lys Glu Lys Ala Ser Leu Pro Gly Val Lys Lys Ala Leu  
                     100                    105                    110  
 Gly Lys Tyr Gly Pro Ala Asp Val Glu Asp Thr Thr Gly Ser Gly Ala  
                     115                    120                    125  
 Thr Asp Ser Lys Asp Asp Asp Asp Ile Asp Leu Phe Gly Ser Asp Asp  
                     130                    135                    140  
 Glu Glu Glu Ser Glu Glu Ala Lys Arg Leu Arg Glu Glu Arg Leu Ala  
                     145                    150                    155                    160  
 Gln Tyr Glu Ser Lys Lys Ala Lys Lys Pro Ala Leu Val Ala Lys Ser  
                     165                    170                    175  
 Ser Ile Leu Leu Asp Val Lys Pro Trp Asp Asp Glu Thr Asp Met Ala  
                     180                    185                    190  
 Lys Leu Glu Glu Cys Val Arg Ser Ile Gln Ala Asp Gly Leu Val Trp  
                     195                    200                    205  
 Gly Ser Ser Lys Leu Val Pro Val Gly Tyr Gly Ile Lys Lys Leu Gln  
                     210                    215                    220  
 Ile Gln Cys Val Val Glu Asp Asp Lys Val Gly Thr Asp Met Leu Glu  
                     225                    230                    235                    240  
 Glu Gln Ile Thr Ala Phe Glu Asp Tyr Val Gln Ser Met Asp Val Ala  
                     245                    250                    255  
 Ala Phe Asn Lys Ile  
                     260

&lt;210&gt; 596

&lt;211&gt; 44

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 596

Met Lys Lys Glu Met Val Leu Leu Thr Thr Thr Tyr Phe Ser Leu His  
                     1                    5                    10                    15

Val Lys Val Phe Phe Cys Leu Phe Val Cys Phe Ser Ile Leu Ser Ser  
                     20                    25                    30

Ser Arg Arg Gly Ser Leu Ala Asn Asn Ser Ser Trp  
                     35                    40

<210> 597  
 <211> 44  
 <212> PRT  
 <213> Homo sapiens

<400> 597  
 Met Lys Lys Glu Met Val Leu Leu Thr Thr Thr Tyr Phe Ser Leu His  
     1                    5                    10                    15

Val Lys Val Phe Phe Cys Leu Phe Val Cys Phe Ser Ile Leu Ser Ser  
                     20                    25                    30

Ser Arg Arg Gly Ser Leu Ala Asn Asn Ser Ser Trp  
                     35                    40

<210> 598  
 <211> 42  
 <212> PRT  
 <213> Homo sapiens

<400> 598  
 Met Phe Thr Leu Leu Leu Ser Ser Phe Phe Leu Gln His Cys Leu Gln  
     1                    5                    10                    15

Asn Asn Leu Tyr Ala Ser Glu Arg Glu Gln Ile Phe Ser Asn Phe Leu  
                     20                    25                    30

Gln Leu Ser Ser Leu Lys Arg Arg Ile Cys  
                     35                    40

<210> 599  
 <211> 6  
 <212> PRT  
 <213> Homo sapiens

<400> 599  
 Leu Leu Leu Ser Ser Phe  
     1                    5

<210> 600  
 <211> 42  
 <212> PRT  
 <213> Homo sapiens

<400> 600  
 Met Phe Thr Leu Leu Leu Ser Ser Phe Phe Leu Gln His Cys Leu Gln

1                    5                    10                    15  
Asn Asn Leu Tyr Ala Ser Glu Arg Glu Gln Ile Phe Ser Asn Phe Leu  
                20                         25                         30  
  
Gln Leu Ser Ser Leu Lys Arg Arg Ile Cys .  
                35                         40

<210> 601

<211> 86

<212> PRT

<213> Homo sapiens

$\langle 220 \rangle$

<221> SITE

$\langle 222 \rangle$  (6)

<223> Xaa equals any of the naturally occurring L-amino acids

$\langle 220 \rangle$

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (76)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 601

Leu Gly Ser Pro Glu Xaa Ala Gln Lys Val Asp Ile Thr Ser Ala His  
1 5 10 15

Phe Ile Gly Gln Xaa Ser Arg Pro Ser Asp Phe Ala Gln Val Xaa Ser  
 . 20 25 30

Leu Glu Gly Ser Arg Pro Val Ile Trp Ser Leu Asn Gly Trp Thr Leu  
35 40 45

Lys Glu Thr Pro Arg Ala Asp Gly Val Phe Thr Glu Thr Ala Gly Gln  
50 55 60

Gly Leu Gly Thr Ala Gln Gly His Leu Leu Trp Xaa Ala Ala Ala Thr  
65 70 75 80

Gly Ser Pro Asp Cys Ser  
85

<210> 602

<211> 44

<212> PRT

<213> Homo sapiens

&lt;400&gt; 602

Met Gly Val Ala Leu Pro Ser Pro Leu Leu Cys Ser Leu Pro Leu Phe  
 1 5 10 15

Leu Leu Phe Gly Asp Val Ser Gly Ser Ser Ser Leu Leu Ala Leu Leu  
 20 25 30

Pro Phe Leu His Pro Trp His His Pro Ser Leu Ser  
 35 40

&lt;210&gt; 603

&lt;211&gt; 44

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 603

Met Gly Val Ala Leu Pro Ser Pro Leu Leu Cys Ser Leu Pro Leu Phe  
 1 5 10 15

Leu Leu Phe Gly Asp Val Ser Gly Ser Ser Ser Leu Leu Ala Leu Leu  
 20 25 30

Pro Phe Leu His Pro Trp His His Pro Ser Leu Ser  
 35 40

&lt;210&gt; 604

&lt;211&gt; 60

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 604

Met Leu Ser Ala Val Leu Thr Met Leu Arg Phe Ile Ile Ala Phe Ser  
 1 5 10 15

Leu Leu Phe Cys Ser Cys Ser Thr Asp Lys His Cys Thr Trp Tyr His  
 20 25 30

Ala Leu Pro His Phe Lys Lys Ile Cys Leu Thr Glu Arg Lys Lys Met  
 35 40 45

Trp Phe Gly Leu Ala Ala Val Leu Ile Tyr Gly Ile  
 50 55 60

&lt;210&gt; 605

&lt;211&gt; 17

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 605

Ile Thr Phe Ser Cys Phe Phe Cys Asn Asn Cys Ser Gln Val Asn Leu  
 1 5 10 15

Gln

<210> 606  
 <211> 60  
 <212> PRT  
 <213> Homo sapiens

<400> 606  
 Met Leu Ser Ala Val Leu Thr Met Leu Arg Phe Ile Ile Ala Phe Ser  
     1                    5                    10                    15  
 Leu Leu Phe Cys Ser Cys Ser Thr Asp Lys His Cys Thr Trp Tyr His  
                     20                    25                    30  
 Ala Leu Pro His Phe Lys Lys Ile Cys Leu Thr Glu Arg Lys Lys Met  
             35                    40                    45  
 Trp Phe Gly Leu Ala Ala Val Leu Ile Tyr Gly Ile  
     50                    55                    60

<210> 607  
 <211> 97  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (87)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (92)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 607  
 Leu Gly Ala Glu His Phe Lys Cys Ile Thr Trp Val Ala Gly Trp Ala  
     1                    5                    10                    15  
 Val Pro Gly Leu Lys Gly Val Gly Ser Phe Phe Gln Gly Ala Pro Ser  
             20                    25                    30  
 Ala Ser Trp His Arg Thr Leu Ala Pro Ala His Pro Lys Leu Thr Leu  
             35                    40                    45  
 Val Gly Val Gly Pro Leu Thr Gln Thr Trp Pro Leu Pro Ser Leu Val  
     50                    55                    60  
 Leu Leu Pro Gln Leu Ser Pro Val Cys Gly Arg Val Cys Leu Asp Arg  
     65                    70                    75                    80  
 Leu Trp Ala Gly Gln Gly Xaa Gly Gln Ala Glu Xaa Glu Phe Val Leu  
             85                    90                    95

Gly



&lt;210&gt; 608

&lt;211&gt; 318

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 608

Met Arg Leu Leu Ala Gly Trp Leu Cys Leu Ser Leu Ala Ser Val Trp  
 1 5 10 15

Leu Ala Arg Arg Met Trp Thr Leu Arg Ser Pro Leu Thr Arg Ser Leu  
 20 25 30

Tyr Val Asn Met Thr Ser Gly Pro Gly Gly Pro Ala Ala Ala Ala Gly  
 35 40 45

Gly Arg Lys Glu Asn His Gln Trp Tyr Val Cys Asn Arg Glu Lys Leu  
 50 55 60

Cys Glu Ser Leu Gln Ala Val Phe Val Gln Ser Tyr Leu Asp Gln Gly  
 65 70 75 80

Thr Gln Ile Phe Leu Asn Asn Ser Ile Glu Lys Ser Gly Trp Leu Phe  
 85 90 95

Ile Gln Leu Tyr His Ser Phe Val Ser Ser Val Phe Ser Leu Phe Met  
 100 105 110

Ser Arg Thr Ser Ile Asn Gly Leu Leu Gly Arg Gly Ser Met Phe Val  
 115 120 125

Phe Ser Pro Asp Gln Phe Gln Arg Leu Leu Lys Ile Asn Pro Asp Trp  
 130 135 140

Lys Thr His Arg Leu Leu Asp Leu Gly Ala Gly Asp Gly Glu Val Thr  
 145 150 155 160

Lys Ile Met Ser Pro His Phe Glu Glu Ile Tyr Ala Thr Glu Leu Ser  
 165 170 175

Glu Thr Met Ile Trp Gln Leu Gln Lys Lys Lys Tyr Arg Val Leu Gly  
 180 185 190

Ile Asn Glu Trp Gln Asn Thr Gly Phe Gln Tyr Asp Val Ile Ser Cys  
 195 200 205

Leu Asn Leu Leu Asp Arg Cys Asp Gln Pro Leu Thr Leu Leu Lys Asp  
 210 215 220

Ile Arg Ser Val Leu Glu Pro Thr Arg Gly Arg Val Ile Leu Ala Leu  
 225 230 235 240

Val Leu Pro Phe His Pro Tyr Val Glu Asn Val Gly Gly Lys Trp Glu  
 245 250 255

Lys Pro Ser Glu Ile Leu Glu Ile Lys Gly Gln Asn Trp Glu Glu Gln  
 260 265 270

Val Asn Ser Leu Pro Glu Val Phe Arg Lys Ala Gly Phe Val Ile Glu  
 275 280 285  
 Ala Phe Thr Arg Leu Pro Tyr Leu Cys Glu Gly Asp Met Tyr Asn Asp  
 290 295 300  
 Tyr Tyr Val Leu Asp Asp Ala Val Phe Val Leu Lys Pro Val  
 305 310 315  
 <210> 609  
 <211> 318  
 <212> PRT  
 <213> Homo sapiens  
 <400> 609  
 Met Arg Leu Leu Ala Gly Trp Leu Cys Leu Ser Leu Ala Ser Val Trp  
 1 5 10 15  
 Leu Ala Arg Arg Met Trp Thr Leu Arg Ser Pro Leu Thr Arg Ser Leu  
 20 25 30  
 Tyr Val Asn Met Thr Ser Gly Pro Gly Gly Pro Ala Ala Ala Ala Gly  
 35 40 45  
 Gly Arg Lys Glu Asn His Gln Trp Tyr Val Cys Asn Arg Glu Lys Leu  
 50 55 60  
 Cys Glu Ser Leu Gln Ala Val Phe Val Gln Ser Tyr Leu Asp Gln Gly  
 65 70 75 80  
 Thr Gln Ile Phe Leu Asn Asn Ser Ile Glu Lys Ser Gly Trp Leu Phe  
 85 90 95  
 Ile Gln Leu Tyr His Ser Phe Val Ser Ser Val Phe Ser Leu Phe Met  
 100 105 110  
 Ser Arg Thr Ser Ile Asn Gly Leu Leu Gly Arg Gly Ser Met Phe Val  
 115 120 125  
 Phe Ser Pro Asp Gln Phe Gln Arg Leu Leu Lys Ile Asn Pro Asp Trp  
 130 135 140  
 Lys Thr His Arg Leu Leu Asp Leu Gly Ala Gly Asp Gly Glu Val Thr  
 145 150 155 160  
 Lys Ile Met Ser Pro His Phe Glu Glu Ile Tyr Ala Thr Glu Leu Ser  
 165 170 175  
 Glu Thr Met Ile Trp Gln Leu Gln Lys Lys Lys Tyr Arg Val Leu Gly  
 180 185 190  
 Ile Asn Glu Trp Gln Asn Thr Gly Phe Gln Tyr Asp Val Ile Ser Cys  
 195 200 205  
 Leu Asn Leu Leu Asp Arg Cys Asp Gln Pro Leu Thr Leu Leu Lys Asp  
 210 215 220  
 Ile Arg Ser Val Leu Glu Pro Thr Arg Gly Arg Val Ile Leu Ala Leu

309

130 135 140

Gln Asn Gln Val Gln Val Phe Ser Val Trp Gly Gly Pro Ser Xaa Ser  
 145 150 155 160

Thr Leu Pro Tyr Ser Ser Gly Arg Gly Ala Trp Gly Phe Pro Xaa Leu  
 165 170 175

Ser Thr Ile Cys Glu Pro Ala Leu Glu Arg Gly Ser Leu Pro Thr His  
 180 185 190

Leu Pro Tyr  
 195

<210> 611  
 <211> 37  
 <212> PRT  
 <213> Homo sapiens

<400> 611  
 Leu Ala Gly Pro Val Phe Ile Tyr Phe Arg Arg Ser Pro Gly Pro Lys  
 1 5 10 15

Ser Ser Val Val Trp Trp Ala Thr Val Ser Thr Val Trp Pro Thr Met  
 20 25 30

Pro Trp Phe Leu Cys  
 35

<210> 612  
 <211> 3  
 <212> PRT  
 <213> Homo sapiens

<400> 612  
 Ile Pro Gly  
 1

<210> 613  
 <211> 180  
 <212> PRT  
 <213> Homo sapiens

<400> 613  
 Met Trp Thr Leu Phe Ala Leu Ser Gly Pro Leu Phe Leu Phe Gln Val  
 1 5 10 15

Leu Thr Phe Met Ile Tyr Ile Val Ser Thr Val Phe Cys Gly His Leu  
 20 25 30

Gly Lys Val Glu Leu Ala Ser Val Thr Leu Ala Val Ala Phe Val Asn  
 35 40 45

Val Cys Gly Val Ser Val Gly Val Gly Leu Ser Ser Ala Cys Asp Thr

50                      55                      60  
 Leu Met Ser Gln Ser Phe Gly Ser Pro Asn Lys Lys His Val Gly Val  
 65                      70                      75                      80  
 Ile Leu Gln Arg Gly Ala Leu Val Leu Leu Cys Cys Leu Pro Cys  
 85                      90                      95  
 Trp Ala Leu Phe Leu Asn Thr Gln His Ile Leu Leu Leu Phe Arg Gln  
 100                      105                      110  
 Asp Pro Asp Val Ser Arg Leu Thr Gln Asp Tyr Val Met Ile Phe Ile  
 115                      120                      125  
 Pro Gly Leu Pro Val Ile Phe Leu Tyr Asn Leu Leu Ala Lys Tyr Leu  
 130                      135                      140  
 Gln Asn Gln Val Gln Val Phe Glu Cys Val Gly Arg Pro Phe Ser Gln  
 145                      150                      155                      160  
 His Thr Ala Leu Phe Gln Trp Glu Gly Gly Leu Gly Leu Ser Pro Ser  
 165                      170                      175  
 Leu His His Leu  
 180

<210> 614  
 <211> 38  
 <212> PRT  
 <213> Homo sapiens

<400> 614  
 Glu Lys Lys Lys Lys Lys Lys Lys Arg Pro Gly Ala Val Ala His Ala  
 1                      5                      10                      15  
 Leu Ile Pro Ala Leu Trp Glu Thr Glu Ala Gly Gly Ser Pro Glu Val  
 20                      25                      30  
 Gly Ser Ser Arg Pro Ala  
 35

<210> 615  
 <211> 18  
 <212> PRT  
 <213> Homo sapiens

<400> 615  
 Met Val Arg Thr Leu Ser Leu Ala Val Leu Ser Trp Leu Pro Ala Ala  
 1                      5                      10                      15  
 Val Cys

<210> 616

<211> 18  
 <212> PRT  
 <213> Homo sapiens

<400> 616  
 Met Val Arg Thr Leu Ser Leu Ala Val Leu Ser Trp Leu Pro Ala Ala  
 1 5 10 15

Val Cys

<210> 617  
 <211> 42  
 <212> PRT  
 <213> Homo sapiens

<400> 617  
 Met Leu Leu Ser Trp Thr Val Leu Ile Ile Ile Leu Pro Phe Ala Gly  
 1 5 10 15

Asp Val Ser Ser His Leu Cys Ile Leu Arg Pro Phe Ala Gly Ser Val  
 20 25 30

Ser Ser Cys Leu Ser Asn Phe Lys Arg Ile  
 35 40

<210> 618  
 <211> 42  
 <212> PRT  
 <213> Homo sapiens

<400> 618  
 Met Leu Leu Ser Trp Thr Val Leu Ile Ile Ile Leu Pro Phe Ala Gly  
 1 5 10 15

Asp Val Ser Ser His Leu Cys Ile Leu Arg Pro Phe Ala Gly Ser Val  
 20 25 30

Ser Ser Cys Leu Ser Asn Phe Lys Arg Ile  
 35 40

<210> 619  
 <211> 93  
 <212> PRT  
 <213> Homo sapiens

<400> 619  
 Ser Ala Ser Cys Trp Asn Ala Asn Phe Leu Pro Arg Asn Gln Gly Arg  
 1 5 10 15

Lys Leu His Cys Cys Ala Lys Lys Lys Lys Lys Pro Ser Leu His Thr  
 20 25 30

Leu Lys Pro Phe Leu Asn Pro Ser Arg Glu Ser Thr Val Ala Ser Ser

35                      40                      45  
 Thr Thr Ala Ile Gly Phe Ala Ser Val Met Cys Ser Tyr Leu Leu Asp  
     50                      55                      60  
 Phe Gln Asn Ile Lys Lys Lys Lys Arg Ala Ala Ala Leu Glu Asp Pro  
     65                      70                      75                      80  
 Ser Leu Arg Thr Arg Ala Cys Asp Asn Ile Ala Arg Arg  
                     85                      90

<210> 620  
 <211> 403  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (175)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (320)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (331)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (368)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 620  
 Met Ala Thr Ala Glu Arg Arg Ala Leu Gly Ile Gly Phe Gln Trp Leu  
     1                      5                      10                      15  
 Ser Leu Ala Thr Leu Val Leu Ile Cys Ala Gly Gln Gly Gly Arg Arg  
                     20                      25                      30  
 Glu Asp Gly Gly Pro Ala Cys Tyr Gly Gly Phe Asp Leu Tyr Phe Ile  
                     35                      40                      45  
 Leu Asp Lys Ser Gly Ser Val Leu His His Trp Asn Glu Ile Tyr Tyr  
     50                      55                      60  
 Phe Val Glu Gln Leu Ala His Lys Phe Ile Ser Pro Gln Leu Arg Met  
     65                      70                      75                      80  
 Ser Phe Ile Val Phe Ser Thr Arg Gly Thr Thr Leu Met Lys Leu Thr  
                     85                      90                      95  
 Glu Asp Arg Glu Gln Ile Arg Gln Gly Leu Glu Glu Leu Gln Lys Val  
                     100                      105                      110

Leu Pro Gly Gly Asp Thr Tyr Met His Glu Gly Phe Glu Arg Ala Ser  
 115 120 125  
 Glu Gln Ile Tyr Tyr Glu Asn Arg Gln Gly Tyr Arg Thr Ala Ser Val  
 130 135 140  
 Ile Ile Ala Leu Thr Asp Gly Glu Leu His Glu Asp Leu Phe Phe Tyr  
 145 150 155 160  
 Ser Glu Arg Glu Ala Asn Arg Ser Arg Asp Leu Gly Ala Ile Xaa Tyr  
 165 170 175  
 Cys Val Gly Val Lys Asp Phe Asn Glu Thr Gln Leu Ala Arg Ile Ala  
 180 185 190  
 Asp Ser Lys Asp His Val Phe Pro Val Asn Asp Gly Phe Gln Ala Leu  
 195 200 205  
 Gln Gly Ile Ile His Ser Ile Leu Lys Lys Ser Cys Ile Glu Ile Leu  
 210 215 220  
 Ala Ala Glu Pro Ser Thr Ile Cys Ala Gly Glu Ser Phe Gln Val Val  
 225 230 235 240  
 Val Arg Gly Asn Gly Phe Arg His Ala Arg Asn Val Asp Arg Val Leu  
 245 250 255  
 Cys Ser Phe Lys Ile Asn Asp Ser Val Thr Leu Asn Glu Lys Pro Phe  
 260 265 270  
 Ser Val Glu Asp Thr Tyr Leu Leu Cys Pro Ala Pro Ile Leu Lys Glu  
 275 280 285  
 Val Gly Met Lys Ala Ala Leu Gln Val Ser Met Asn Asp Gly Leu Ser  
 290 295 300  
 Phe Ile Ser Ser Ser Val Ile Ile Thr Thr Thr His Cys Ser Asp Xaa  
 305 310 315 320  
 Ser Ile Leu Ala Ile Ala Leu Leu Ile Leu Xaa Leu Leu Leu Ala Leu  
 325 330 335  
 Ala Leu Leu Trp Trp Phe Trp Pro Leu Cys Cys Thr Val Ile Ile Lys  
 340 345 350  
 Glu Val Pro Pro Pro Pro Ala Glu Glu Ser Glu Val Ser Asp His Xaa  
 355 360 365  
 Arg Met Ala Val Gly Gly Gln Gly Gly Arg Val Gly Trp Arg Ala Gly  
 370 375 380  
 Trp Ala Ala Gly His Leu Ala Pro Cys Arg Ala Glu Leu Ser Gln Ala  
 385 390 395 400  
 Gln Arg Ile

&lt;210&gt; 621



&lt;211&gt; 403

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 621

Met Ala Thr Ala Glu Arg Arg Ala Leu Gly Ile Gly Phe Gln Trp Leu  
 1 5 10 15

Ser Leu Ala Thr Leu Val Leu Ile Cys Ala Gly Gln Gly Gly Arg Arg  
 20 25 30

Glu Asp Gly Gly Pro Ala Cys Tyr Gly Gly Phe Asp Leu Tyr Phe Ile  
 35 40 45

Leu Asp Lys Ser Gly Ser Val Leu His His Trp Asn Glu Ile Tyr Tyr  
 50 55 60

Phe Val Glu Gln Leu Ala His Lys Phe Ile Ser Pro Gln Leu Arg Met  
 65 70 75 80

Ser Phe Ile Val Phe Ser Thr Arg Gly Thr Thr Leu Met Lys Leu Thr  
 85 90 95

Glu Asp Arg Glu Gln Ile Arg Gln Gly Leu Glu Glu Leu Gln Lys Val  
 100 105 110

Leu Pro Gly Gly Asp Thr Tyr Met His Glu Gly Phe Glu Arg Ala Ser  
 115 120 125

Glu Gln Ile Tyr Tyr Glu Asn Arg Gln Gly Tyr Arg Thr Ala Ser Val  
 130 135 140

Ile Ile Ala Leu Thr Asp Gly Glu Leu His Glu Asp Leu Phe Phe Tyr  
 145 150 155 160

Ser Glu Arg Glu Ala Asn Arg Ser Arg Asp Leu Gly Ala Ile Val Tyr  
 165 170 175

Cys Val Gly Val Lys Asp Phe Asn Glu Thr Gln Leu Ala Arg Ile Ala  
 180 185 190

Asp Ser Lys Asp His Val Phe Pro Val Asn Asp Gly Phe Gln Ala Leu  
 195 200 205

Gln Gly Ile Ile His Ser Ile Leu Lys Lys Ser Cys Ile Glu Ile Leu  
 210 215 220

Ala Ala Glu Pro Ser Thr Ile Cys Ala Gly Glu Ser Phe Gln Val Val  
 225 230 235 240

Val Arg Gly Asn Gly Phe Arg His Ala Arg Asn Val Asp Arg Val Leu  
 245 250 255

Cys Ser Phe Lys Ile Asn Asp Ser Val Thr Leu Asn Glu Lys Pro Phe  
 260 265 270

Ser Val Glu Asp Thr Tyr Leu Leu Cys Pro Ala Pro Ile Leu Lys Glu  
 275 280 285

Val Gly Met Lys Ala Ala Leu Gln Val Ser Met Asn Asp Gly Leu Ser

290                      295                      300  
 Phe Ile Ser Ser Ser Val Ile Ile Thr Thr Thr His Cys Ser Asp Gly  
 305                      310                      315                      320  
 Ser Ile Leu Ala Ile Ala Leu Leu Ile Leu Phe Leu Leu Leu Ala Leu  
                          325                      330                      335  
 Ala Leu Leu Trp Trp Phe Trp Pro Leu Cys Cys Thr Val Ile Ile Lys  
                          340                      345                      350  
 Glu Val Pro Pro Pro Pro Ala Glu Glu Ser Glu Val Ser Asp His Ser  
                          355                      360                      365  
 Arg Met Ala Val Gly Gly Gln Gly Gly Arg Val Gly Trp Arg Ala Gly  
                          370                      375                      380  
 Trp Ala Ala Gly His Leu Ala Pro Cys Arg Ala Glu Leu Ser Gln Ala  
 385                      390                      395                      400  
 Gln Arg Ile

&lt;210&gt; 622

&lt;211&gt; 156

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (102)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 622

Val Val Lys Ile Thr His Cys Pro Thr Leu Leu Thr Arg Asp Gly Asp  
 1                      5                      10                      15

Arg Ile Arg Ser Asn Gly Lys Phe Gly Gly Leu Gln Asn Lys Ala Pro  
                          20                      25                      30

Pro Met Asp Lys Leu Arg Gly Met Val Phe Gly Ala Pro Val Pro Lys  
                          35                      40                      45

Gln Cys Leu Ile Leu Gly Glu Gln Ile Asp Leu Leu Gln Gln Tyr Arg  
                          50                      55                      60

Ser Ala Val Cys Lys Leu Asp Ser Val Asn Lys Asp Leu Asn Ser Gln  
                          65                      70                      75                      80

Leu Glu Tyr Leu Arg Thr Pro Asp Met Arg Lys Lys Lys Gln Glu Leu  
                          85                      90                      95

Asp Glu His Glu Lys Xaa Leu Lys Leu Ile Glu Glu Lys Leu Gly Met  
                          100                      105                      110

Thr Pro Ile Arg Lys Cys Asn Asp Ser Leu Arg His Ser Pro Lys Val  
                          115                      120                      125

Glu Thr Thr Asp Cys Pro Val Pro Pro Lys Arg Met Arg Arg Glu Ala  
 130 135 140

Thr Arg Gln Asn Arg Ile Ile Thr Lys Thr Asp Val  
 145 150 155

<210> 623

<211> 175

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (91)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (173)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (174)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (175)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 623

Val Phe Gly Met Leu Leu Gly Asp Thr Ile Ile Leu Asp Asn Leu Asp  
 1 5 10 15

Ala Ala Asn His Tyr Arg Lys Glu Val Val Lys Ile Thr His Cys Pro  
 20 25 30

Thr Leu Leu Thr Arg Asp Gly Asp Arg Ile Arg Ser Asn Gly Lys Phe  
 35 40 45

Gly Gly Leu Gln Asn Lys Ala Pro Pro Met Asp Lys Leu Arg Gly Met  
 50 55 60

Val Phe Gly Ala Pro Val Pro Lys Gln Cys Leu Ile Leu Gly Glu Gln  
 65 70 75 80

Ile Asp Leu Leu Gln Gln Tyr Arg Ser Ala Xaa Cys Lys Leu Asp Ser  
 85 90 95

Val Asn Lys Asp Leu Asn Ser Gln Leu Glu Tyr Leu Arg Thr Pro Asp  
 100 105 110

Met Arg Lys Lys Lys Gln Glu Leu Asp Glu His Glu Lys Asn Leu Lys  
 115 120 125

Leu Ile Glu Glu Lys Leu Gly Met Thr Pro Ile Arg Lys Cys Asn Asp  
 130 135 140

Ser Leu Arg His Ser Pro Lys Val Glu Thr Thr Asp Cys Pro Val Pro  
 145 150 155 160

Pro Lys Arg Met Arg Arg Glu Ala Gly Asp Lys Arg Xaa Xaa Xaa  
 165 170 175

<210> 624

<211> 24

<212> PRT

<213> Homo sapiens

<400> 624

Met Trp His Leu Trp Arg Arg Leu Leu Ser Cys Phe Pro Val Ala Met  
 1 5 10 15

Leu Gln Asp Tyr Lys Tyr Ser Val  
 20

<210> 625

<211> 20

<212> PRT

<213> Homo sapiens

<400> 625

Ser Cys Leu Pro Val Gly Thr Asp Pro Gln Gln Met Gln Lys His Leu  
 1 5 10 15

Val Val Ile Lys  
 20

<210> 626

<211> 24

<212> PRT

<213> Homo sapiens

<400> 626

Met Trp His Leu Trp Arg Arg Leu Leu Ser Cys Phe Pro Val Ala Met  
 1 5 10 15

Leu Gln Asp Tyr Lys Tyr Ser Val  
 20

<210> 627

<211> 439

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (358)

<223> Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 627

Met Val Pro Ser Ser Pro Arg Ala Leu Phe Leu Leu Leu Leu Ile Leu  
 1 5 10 15  
 Ala Cys Pro Glu Pro Arg Ala Ser Gln Asn Cys Leu Ser Lys Gln Gln  
 20 25 30  
 Leu Leu Ser Ala Ile Arg Gln Leu Gln Gln Leu Leu Lys Gly Gln Glu  
 35 40 45  
 Thr Arg Phe Ala Glu Gly Ile Arg His Met Lys Ser Arg Leu Ala Ala  
 50 55 60  
 Leu Gln Asn Ser Val Gly Arg Val Gly Pro Asp Ala Leu Pro Val Ser  
 65 70 75 80  
 Cys Pro Ala Leu Asn Thr Pro Ala Asp Gly Arg Lys Phe Gly Ser Lys  
 85 90 95  
 Tyr Leu Val Asp His Glu Val His Phe Thr Cys Asn Pro Gly Phe Arg  
 100 105 110  
 Leu Val Gly Pro Ser Ser Val Val Cys Leu Pro Asn Gly Thr Trp Thr  
 115 120 125  
 Gly Glu Gln Pro His Cys Arg Gly Ile Ser Glu Cys Ser Ser Gln Pro  
 130 135 140  
 Cys Gln Asn Gly Gly Thr Cys Val Glu Gly Val Asn Gln Tyr Arg Cys  
 145 150 155 160  
 Ile Cys Pro Pro Gly Arg Thr Gly Asn Arg Cys Gln His Gln Ala Gln  
 165 170 175  
 Thr Ala Ala Pro Glu Gly Ser Val Ala Gly Asp Ser Ala Phe Ser Arg  
 180 185 190  
 Ala Pro Arg Cys Ala Gln Val Glu Arg Ala Gln His Cys Ser Cys Glu  
 195 200 205  
 Ala Gly Phe His Leu Ser Gly Ala Ala Gly Asp Ser Val Cys Gln Asp  
 210 215 220  
 Val Asn Glu Cys Glu Leu Tyr Gly Gln Glu Gly Arg Pro Arg Leu Cys  
 225 230 235 240  
 Met His Ala Cys Val Asn Thr Pro Gly Ser Tyr Arg Cys Thr Cys Pro  
 245 250 255  
 Gly Gly Tyr Arg Thr Leu Ala Asp Gly Lys Ser Cys Glu Asp Val Asp  
 260 265 270  
 Glu Cys Val Gly Leu Gln Pro Val Cys Pro Gln Gly Thr Thr Cys Ile  
 275 280 285  
 Asn Thr Gly Gly Ser Phe Gln Cys Val Ser Pro Glu Cys Pro Glu Gly  
 290 295 300  
 Ser Gly Asn Val Ser Tyr Val Lys Thr Ser Pro Phe Gln Cys Glu Arg

305                      310                      315                      320  
 Asn Pro Cys Pro Met Asp Ser Arg Pro Cys Arg His Leu Pro Lys Thr  
                                  325                      330                      335  
 Ile Ser Phe His Tyr Leu Ser Leu Pro Ser Asn Leu Lys Thr Pro Ile  
                                  340                      345                      350  
 Thr Leu Phe Arg Met Xaa Thr Ala Ser Ala Pro Gly Arg Ala Gly Pro  
                                  355                      360                      365  
 Asn Ser Leu Arg Phe Gly Ile Val Gly Gly Asn Ser Arg Gly His Phe  
                                  370                      375                      380  
 Val Met Gln Arg Ser Asp Arg Gln Thr Gly Asp Leu Ile Leu Val Gln  
                                  385                      390                      395                      400  
 Asn Leu Glu Gly Pro Gln Thr Leu Glu Val Asp Val Asp Met Ser Glu  
                                  405                      410                      415  
 Tyr Leu Asp Arg Ser Phe Gln Ala Asn His Val Ser Lys Val Thr Ile  
                                  420                      425                      430  
 Phe Val Ser Pro Tyr Asp Phe  
                                  435

&lt;210&gt; 628

&lt;211&gt; 439

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 628

Met Val Pro Ser Ser Pro Arg Ala Leu Phe Leu Leu Leu Leu Ile Leu  
   1                                  5                                  10                                  15  
 Ala Cys Pro Glu Pro Arg Ala Ser Gln Asn Cys Leu Ser Lys Gln Gln  
                                   20                                  25                                  30  
 Leu Leu Ser Ala Ile Arg Gln Leu Gln Gln Leu Leu Lys Gly Gln Glu  
                                   35                                  40                                  45  
 Thr Arg Phe Ala Glu Gly Ile Arg His Met Lys Ser Arg Leu Ala Ala  
                                   50                                  55                                  60  
 Leu Gln Asn Ser Val Gly Arg Val Gly Pro Asp Ala Leu Pro Val Ser  
                                   65                                  70                                  75                                  80  
 Cys Pro Ala Leu Asn Thr Pro Ala Asp Gly Arg Lys Phe Gly Ser Lys  
                                   85                                  90                                  95  
 Tyr Leu Val Asp His Glu Val His Phe Thr Cys Asn Pro Gly Phe Arg  
                                   100                                  105                                  110  
 Leu Val Gly Pro Ser Ser Val Val Cys Leu Pro Asn Gly Thr Trp Thr  
                                   115                                  120                                  125  
 Gly Glu Gln Pro His Cys Arg Gly Ile Ser Glu Cys Ser Ser Gln Pro  
                                   130                                  135                                  140

Cys Gln Asn Gly Gly Thr Cys Val Glu Gly Val Asn Gln Tyr Arg Cys  
 145 150 155 160  
 Ile Cys Pro Pro Gly Arg Thr Gly Asn Arg Cys Gln His Gln Ala Gln  
 165 170 175  
 Thr Ala Ala Pro Glu Gly Ser Val Ala Gly Asp Ser Ala Phe Ser Arg  
 180 185 190  
 Ala Pro Arg Cys Ala Gln Val Glu Arg Ala Gln His Cys Ser Cys Glu  
 195 200 205  
 Ala Gly Phe His Leu Ser Gly Ala Ala Gly Asp Ser Val Cys Gln Asp  
 210 215 220  
 Val Asn Glu Cys Glu Leu Tyr Gly Gln Glu Gly Arg Pro Arg Leu Cys  
 225 230 235 240  
 Met His Ala Cys Val Asn Thr Pro Gly Ser Tyr Arg Cys Thr Cys Pro  
 245 250 255  
 Gly Gly Tyr Arg Thr Leu Ala Asp Gly Lys Ser Cys Glu Asp Val Asp  
 260 265 270  
 Glu Cys Val Gly Leu Gln Pro Val Cys Pro Gln Gly Thr Thr Cys Ile  
 275 280 285  
 Asn Thr Gly Gly Ser Phe Gln Cys Val Ser Pro Glu Cys Pro Glu Gly  
 290 295 300  
 Ser Gly Asn Val Ser Tyr Val Lys Thr Ser Pro Phe Gln Cys Glu Arg  
 305 310 315 320  
 Asn Pro Cys Pro Met Asp Ser Arg Pro Cys Arg His Leu Pro Lys Thr  
 325 330 335  
 Ile Ser Phe His Tyr Leu Ser Leu Pro Ser Asn Leu Lys Thr Pro Ile  
 340 345 350  
 Thr Leu Phe Arg Met Ala Thr Ala Ser Ala Pro Gly Arg Ala Gly Pro  
 355 360 365  
 Asn Ser Leu Arg Phe Gly Ile Val Gly Gly Asn Ser Arg Gly His Phe  
 370 375 380  
 Val Met Gln Arg Ser Asp Arg Gln Thr Gly Asp Leu Ile Leu Val Gln  
 385 390 395 400  
 Asn Leu Glu Gly Pro Gln Thr Leu Glu Val Asp Val Asp Met Ser Glu  
 405 410 415  
 Tyr Leu Asp Arg Ser Phe Gln Ala Asn His Val Ser Lys Val Thr Ile  
 420 425 430  
 Phe Val Ser Pro Tyr Asp Phe  
 435

&lt;210&gt; 629

&lt;211&gt; 32

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 629

Trp Asn Pro Ile Ser Met Lys Asn Lys Leu Lys Ile Leu Lys Ile Lys  
 1 5 10 15

Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Gly Arg Pro  
 20 25 30

&lt;210&gt; 630

&lt;211&gt; 15

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 630

Pro Ala Pro Leu Pro Leu Arg Trp Ser Pro Ala Gly Pro Gly Gln  
 1 5 10 15

&lt;210&gt; 631

&lt;211&gt; 44

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 631

Met Ala Pro Ala Cys Gln Ile Leu Arg Trp Ala Leu Ala Leu Gly Leu  
 1 5 10 15

Gly Leu Met Phe Glu Val Thr His Ala Phe Arg Ser Gln Gly Arg Gly  
 20 25 30

Ser Leu Val Val Ala Val Gly Arg Glu Arg Lys Met  
 35 40

&lt;210&gt; 632

&lt;211&gt; 44

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 632

Met Ala Pro Ala Cys Gln Ile Leu Arg Trp Ala Leu Ala Leu Gly Leu  
 1 5 10 15

Gly Leu Met Phe Glu Val Thr His Ala Phe Arg Ser Gln Gly Arg Gly  
 20 25 30

Ser Leu Val Val Ala Val Gly Arg Glu Arg Lys Met  
 35 40



<210> 633  
 <211> 42  
 <212> PRT  
 <213> Homo sapiens

<400> 633  
 Met Phe Lys Lys Asp Leu Ile Cys Lys Arg Trp Ser Phe Phe Phe Trp  
     1                    5                    10                    15  
 Gly Leu Leu Ile Ser Val Val Ile Leu Thr Ser Phe Ser Asn Tyr Ser  
                     20                    25                    30  
 Arg Arg Phe Tyr Leu Asp Leu Tyr Phe Ser  
           35                    40

<210> 634  
 <211> 7  
 <212> PRT  
 <213> Homo sapiens

<400> 634  
 Phe Ile Gly Phe Ile Leu Cys  
     1                    5

<210> 635  
 <211> 42  
 <212> PRT  
 <213> Homo sapiens

<400> 635  
 Met Phe Lys Lys Asp Leu Ile Cys Lys Arg Trp Ser Phe Phe Phe Trp  
     1                    5                    10                    15  
 Gly Leu Leu Ile Ser Val Val Ile Leu Thr Ser Phe Ser Asn Tyr Ser  
                     20                    25                    30  
 Arg Arg Phe Tyr Leu Asp Leu Tyr Phe Ser  
           35                    40

<210> 636  
 <211> 93  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (13)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 636

Trp Phe Gln Thr Val Asp Arg His Cys Phe Val Leu Xaa Thr Asp Lys  
1 5 10 15

Val Lys Leu Thr Trp Arg Asp Arg Phe Pro Ala Tyr Leu Thr Asn Leu  
20 25 30

Val Ser Ile Ile Phe Met Xaa Ser Ser Arg Arg Leu Arg Pro Asp Glu  
35 40 45

Val Arg Gly Asn Arg Lys Glu Val Ile Gly Phe Ser Arg Ala Trp Trp  
50 55 60

Phe Thr Thr Val Ile Pro Ala Leu Trp Glu Ala Glu Ala Gly Arg Ser  
65 70 75 80

Leu Glu Val Arg Ser Ser Arg Pro Ala Trp Pro Ile Trp  
85 90

<210> 637

<211> 35

<212> PRT

<213> Homo sapiens

<400> 637

Met Ser Leu Gly Phe Trp Val Trp Leu Pro Ser Cys Cys His Lys Met  
1 5 10 15

Leu Val Val Thr Cys Thr Phe Gly His Tyr Leu Pro Leu Glu Ser Ser  
20 25 30

His His Leu  
35

<210> 638

<211> 35

<212> PRT

<213> Homo sapiens

<400> 638

Met Ser Leu Gly Phe Trp Val Trp Leu Pro Ser Cys Cys His Lys Met  
1 5 10 15

Leu Val Val Thr Cys Thr Phe Gly His Tyr Leu Pro Leu Glu Ser Ser  
20 25 30

His His Leu  
35

<210> 639

<211> 394

<212> PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 639

Val Thr Thr Leu Phe Leu Gly Pro Cys Tyr Cys Arg Gly Arg Leu His  
 1 5 10 15  
 Gly Leu Arg Gln Glu Ser Arg Leu Gly Asp Arg Ser Leu Val Ile Gly  
 20 25 30  
 Ala Gly Ala Cys Tyr Cys Ile Tyr Arg Leu Thr Arg Gly Arg Lys Gln  
 35 40 45  
 Asn Lys Glu Lys Met Ala Glu Gly Gly Ser Gly Asp Val Asp Asp Ala  
 50 55 60  
 Gly Asp Cys Ser Gly Ala Arg Tyr Asn Asp Trp Ser Asp Asp Asp Asp  
 65 70 75 80  
 Asp Ser Asn Glu Ser Lys Ser Ile Val Trp Tyr Pro Pro Trp Ala Arg  
 85 90 95  
 Ile Gly Thr Glu Ala Gly Thr Arg Ala Arg Ala Arg Ala Arg Ala Arg  
 100 105 110  
 Ala Thr Arg Ala Arg Arg Ala Val Gln Lys Arg Ala Ser Pro Asn Ser  
 115 120 125  
 Asp Asp Thr Val Leu Ser Pro Gln Glu Leu Gln Lys Val Leu Cys Leu  
 130 135 140  
 Val Glu Met Ser Glu Lys Pro Tyr Ile Leu Glu Ala Ala Leu Ile Ala  
 145 150 155 160  
 Leu Gly Asn Asn Ala Ala Tyr Ala Phe Asn Arg Asp Ile Ile Arg Asp  
 165 170 175  
 Leu Gly Gly Leu Pro Ile Val Ala Lys Ile Leu Asn Thr Arg Asp Pro  
 180 185 190  
 Ile Val Lys Glu Lys Ala Leu Ile Val Leu Asn Asn Leu Ser Val Asn  
 195 200 205  
 Ala Glu Asn Gln Arg Arg Leu Lys Val Tyr Met Asn Gln Val Cys Asp  
 210 215 220  
 Asp Thr Ile Thr Ser Arg Leu Asn Ser Ser Val Gln Leu Ala Gly Leu  
 225 230 235 240  
 Arg Leu Leu Thr Asn Met Thr Val Thr Asn Glu Tyr Gln His Met Leu  
 245 250 255  
 Ala Asn Ser Ile Ser Asp Phe Phe Arg Leu Phe Ser Ala Gly Asn Glu  
 260 265 270  
 Glu Thr Lys Leu Gln Val Leu Lys Leu Leu Leu Asn Leu Ala Glu Asn  
 275 280 285  
 Pro Ala Met Thr Arg Glu Leu Leu Arg Ala Gln Val Pro Ser Ser Leu  
 290 295 300

Gly Ser Leu Phe Asn Lys Lys Glu Asn Lys Glu Val Ile Leu Lys Leu  
 305 310 315 320  
 Leu Val Ile Phe Glu Asn Ile Asn Asp Asn Phe Lys Trp Glu Glu Asn  
 325 330 335  
 Glu Pro Thr Gln Asn Gln Phe Gly Glu Gly Ser Leu Phe Phe Phe Leu  
 340 345 350  
 Lys Glu Phe Gln Val Cys Ala Asp Lys Val Leu Gly Ile Glu Ser His  
 355 360 365  
 His Asp Phe Leu Val Lys Val Lys Val Gly Lys Phe Met Ala Lys Leu  
 370 375 380  
 Ala Glu His Met Phe Pro Lys Ser Gln Glu  
 385 390

<210> 640  
 <211> 49  
 <212> PRT  
 <213> Homo sapiens

<400> 640  
 Met Ser Pro Arg Pro Leu Ile Ala Arg Cys Glu Ala Leu Gly Cys Gly  
 1 5 10 15  
 Ala Arg Arg Leu Pro Trp Trp Ala Leu Ala Met Ala Leu Cys Ala Cys  
 20 25 30  
 Gly Arg Cys Val Ala Ala Asn Ser Ile Gly Glu Thr Leu Pro Ser Glu  
 35 40 45

Val

<210> 641  
 <211> 49  
 <212> PRT  
 <213> Homo sapiens

<400> 641  
 Met Ser Pro Arg Pro Leu Ile Ala Arg Cys Glu Ala Leu Gly Cys Gly  
 1 5 10 15  
 Ala Arg Arg Leu Pro Trp Trp Ala Leu Ala Met Ala Leu Cys Ala Cys  
 20 25 30  
 Gly Arg Cys Val Ala Ala Asn Ser Ile Gly Glu Thr Leu Pro Ser Glu  
 35 40 45

Val

<210> 642  
 <211> 85  
 <212> PRT  
 <213> Homo sapiens

<400> 642  
 Pro Ser Val Ala Leu Cys Trp Ile Phe Phe Ile Pro Leu Gly Lys Trp  
           1                  5                  10                  15  
 Glu Phe Phe Tyr Arg Pro Ala Ile Leu Leu Leu Cys Gln Ile Ala Leu  
                   20                  25                  30  
 Tyr Tyr Gln Asp Thr Pro Met Ala His Phe Arg Leu Thr Glu Leu Phe  
           35                  40                  45  
 Leu Tyr Glu Cys Thr Val Val Ile Phe Trp Ala Val Cys Glu Phe Leu  
           50                  55                  60  
 Val Thr His Pro Leu Thr Thr Lys Ala Leu Ser Glu Gln Tyr Lys Ser  
           65                  70                  75                  80  
 Ile Lys Ala Gln Ile  
                   85

<210> 643  
 <211> 85  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (8)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (33)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 643  
 Met Val Gly Leu Pro Ala Val Xaa Gln Leu Phe Trp Gly Leu Cys Leu  
           1                  5                  10                  15  
 Cys Thr Cys Gly Leu Tyr Pro Ala Pro Gln Ser Trp Leu Ser Ser Gly  
                   20                  25                  30  
 Xaa Tyr Lys Val Thr Ser Gly Ala Pro Ser Glu Arg Met Trp Pro Gln  
           35                  40                  45  
 Arg His Ala Ser Gly Phe Arg Leu Ser Gly Arg Thr Cys Leu Arg Ala  
           50                  55                  60  
 Thr Ala Pro Ser Pro Ser Phe Pro Phe Phe Ser Ala Val Ile Asn Leu  
           65                  70                  75                  80  
 Ser Ala Cys Ser Lys  
                   85

<210> 644  
 <211> 54  
 <212> PRT  
 <213> Homo sapiens

<400> 644  
 Met Val Gly Leu Pro Ala Val Val Gln Leu Phe Trp Gly Leu Cys Leu  
     1                    5                    10                    15  
 Cys Thr Cys Gly Ala Val Ser Cys Pro Thr Glu Leu Ala Val Gln Trp  
                     20                    25                    30  
 Arg Ile Gln Ser Asp Ile Trp Cys Ser Leu Arg Lys Asn Val Ala Pro  
                     35                    40                    45  
 Glu Ala Cys Gln Trp Leu  
                     50

<210> 645  
 <211> 81  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (67)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (76)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (81)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 645  
 Met Ile Leu Gly Ile His Trp Gly Ile Phe Leu Leu Leu Leu Ser  
     1                    5                    10                    15  
 Trp Leu Glu Leu Gln Arg Thr Val Ile Phe Phe Phe Ser Pro Phe Pro  
                     20                    25                    30  
 Ile Gln Lys His Tyr Thr Leu Gly His Phe Ser Phe Ser Gln Arg Arg  
                     35                    40                    45  
 Phe Met Asp Ser Gln Thr Glu Leu Cys Ala Thr Gly Lys Val Lys Arg  
                     50                    55                    60  
 Glu Lys Xaa Ala Asp Glu Val Thr Trp Leu His Xaa Leu His His Ala  
     65                    70                    75                    80

Xaa

<210> 646  
 <211> 73  
 <212> PRT  
 <213> Homo sapiens

<400> 646  
 Ile Phe Leu Leu Leu Leu Ser Trp Leu Glu Leu Gln Arg Thr Val  
     1                    5                    10                    15  
 Ile Phe Phe Phe Ser Pro Phe Pro Ile Gln Lys His Tyr Thr Leu Gly  
                     20                    25                    30  
 His Phe Ser Phe Ser Gln Arg Arg Phe Met Asp Ser Gln Thr Glu Leu  
                     35                    40                    45  
 Cys Ala Thr Gly Lys Val Lys Arg Glu Lys Ala Ala Asp Glu Val Thr  
                     50                    55                    60  
 Trp Leu His Val Leu His His Ala Glu  
                     65                    70

<210> 647  
 <211> 9  
 <212> PRT  
 <213> Homo sapiens

<400> 647  
 Trp Gly Leu Leu Tyr Leu Glu Leu Asn  
     1                    5

<210> 648  
 <211> 81  
 <212> PRT  
 <213> Homo sapiens

<400> 648  
 Met Ile Leu Gly Ile His Trp Gly Ile Phe Leu Leu Leu Leu Ser  
     1                    5                    10                    15  
 Trp Leu Glu Leu Gln Arg Thr Val Ile Phe Phe Phe Ser Pro Phe Pro  
                     20                    25                    30  
 Ile Gln Lys His Tyr Thr Leu Gly His Phe Ser Phe Ser Gln Arg Arg  
                     35                    40                    45  
 Phe Met Asp Ser Gln Thr Glu Leu Cys Ala Thr Gly Lys Val Lys Arg  
                     50                    55                    60  
 Glu Lys Ala Ala Asp Glu Val Thr Trp Leu His Val Leu His His Ala  
     65                    70                    75                    80  
 Glu

<210> 649  
 <211> 870  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (534)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 649  
 Met Gly Pro Pro Ser Leu Val Leu Cys Leu Leu Ser Ala Thr Val Phe  
           1                  5                  10                  15  
 Ser Leu Leu Gly Gly Ser Ser Ala Phe Leu Ser His His Arg Leu Lys  
                   20                  25                  30  
 Gly Arg Phe Gln Arg Asp Arg Arg Asn Ile Arg Pro Asn Ile Ile Leu  
                   35                  40                  45  
 Val Leu Thr Asp Asp Gln Asp Val Glu Leu Gly Ser Met Gln Val Met  
           50                  55                  60  
 Asn Lys Thr Arg Arg Ile Met Glu Gln Gly Gly Ala His Phe Ile Asn  
           65                  70                  75                  80  
 Ala Phe Val Thr Thr Pro Met Cys Cys Pro Ser Arg Ser Ser Ile Leu  
                   85                  90                  95  
 Thr Gly Lys Tyr Val His Asn His Asn Thr Tyr Thr Asn Asn Glu Asn  
                   100                  105                  110  
 Cys Ser Ser Pro Ser Trp Gln Ala Gln His Glu Ser Arg Thr Phe Ala  
           115                  120                  125  
 Val Tyr Leu Asn Ser Thr Gly Tyr Arg Thr Ala Phe Phe Gly Lys Tyr  
           130                  135                  140  
 Leu Asn Glu Tyr Asn Gly Ser Tyr Val Pro Pro Gly Trp Lys Glu Trp  
           145                  150                  155                  160  
 Val Gly Leu Leu Lys Asn Ser Arg Phe Tyr Asn Tyr Thr Leu Cys Arg  
                   165                  170                  175  
 Asn Gly Val Lys Glu Lys His Gly Ser Asp Tyr Ser Lys Asp Tyr Leu  
           180                  185                  190  
 Thr Asp Leu Ile Thr Asn Asp Ser Val Ser Phe Phe Arg Thr Ser Lys  
           195                  200                  205  
 Lys Met Tyr Pro His Arg Pro Val Leu Met Val Ile Ser His Ala Ala  
           210                  215                  220  
 Pro His Gly Pro Glu Asp Ser Ala Pro Gln Tyr Ser Arg Leu Phe Pro  
           225                  230                  235                  240  
 Asn Ala Ser Gln His Ile Thr Pro Ser Tyr Asn Tyr Ala Pro Asn Pro



				245				250				255			
Asp	Lys	His	Trp	Ile	Met	Arg	Tyr	Thr	Gly	Pro	Met	Lys	Pro	Ile	His
			260					265					270		
Met	Glu	Phe	Thr	Asn	Met	Leu	Gln	Arg	Lys	Arg	Leu	Gln	Thr	Leu	Met
			275				280					285			
Ser	Val	Asp	Asp	Ser	Met	Glu	Thr	Ile	Tyr	Asn	Met	Leu	Val	Glu	Thr
			290				295				300				
Gly	Glu	Leu	Asp	Asn	Thr	Tyr	Ile	Val	Tyr	Thr	Ala	Asp	His	Gly	Tyr
			305				310				315			320	
His	Ile	Gly	Gln	Phe	Gly	Leu	Val	Lys	Gly	Lys	Ser	Met	Pro	Tyr	Glu
			325					330					335		
Phe	Asp	Ile	Arg	Val	Pro	Phe	Tyr	Val	Arg	Gly	Pro	Asn	Val	Glu	Ala
			340					345					350		
Gly	Cys	Leu	Asn	Pro	His	Ile	Val	Leu	Asn	Ile	Asp	Leu	Ala	Pro	Thr
			355				360					365			
Ile	Leu	Asp	Ile	Ala	Gly	Leu	Asp	Ile	Pro	Ala	Asp	Met	Asp	Gly	Lys
			370				375				380				
Ser	Ile	Leu	Lys	Leu	Leu	Asp	Thr	Glu	Arg	Pro	Val	Asn	Arg	Phe	His
			385				390				395			400	
Leu	Lys	Lys	Lys	Met	Arg	Val	Trp	Arg	Asp	Ser	Phe	Leu	Val	Glu	Arg
			405					410					415		
Gly	Lys	Leu	Leu	His	Lys	Arg	Asp	Asn	Asp	Lys	Val	Asp	Ala	Gln	Glu
			420				425					430			
Glu	Asn	Phe	Leu	Pro	Lys	Tyr	Gln	Arg	Val	Lys	Asp	Leu	Cys	Gln	Arg
			435				440				445				
Ala	Glu	Tyr	Gln	Thr	Ala	Cys	Glu	Gln	Leu	Gly	Gln	Lys	Trp	Gln	Cys
			450				455				460				
Val	Glu	Asp	Ala	Thr	Gly	Lys	Leu	Lys	Leu	His	Lys	Cys	Lys	Gly	Pro
			465				470				475			480	
Met	Arg	Leu	Gly	Gly	Ser	Arg	Ala	Leu	Ser	Asn	Leu	Val	Pro	Lys	Tyr
			485					490					495		
Tyr	Gly	Gln	Gly	Ser	Glu	Ala	Cys	Thr	Cys	Asp	Ser	Gly	Asp	Tyr	Lys
			500				505					510			
Leu	Ser	Leu	Ala	Gly	Arg	Arg	Lys	Lys	Leu	Phe	Lys	Lys	Lys	Tyr	Lys
			515				520				525				
Ala	Ser	Tyr	Val	Arg	Xaa	Arg	Ser	Ile	Arg	Ser	Val	Ala	Ile	Glu	Val
			530				535				540				
Asp	Gly	Arg	Val	Tyr	His	Val	Gly	Leu	Gly	Asp	Ala	Ala	Gln	Pro	Arg
			545				550				555			560	
Asn	Leu	Thr	Lys	Arg	His	Trp	Pro	Gly	Ala	Pro	Glu	Asp	Gln	Asp	Asp

565										570					575				
Lys	Asp	Gly	Gly	Asp	Phe	Ser	Gly	Thr	Gly	Gly	Leu	Pro	Asp	Tyr	Ser				
			580						585					590					
Ala	Ala	Asn	Pro	Ile	Lys	Val	Thr	His	Arg	Cys	Tyr	Ile	Leu	Glu	Asn				
		595					600					605							
Asp	Thr	Val	Gln	Cys	Asp	Leu	Asp	Leu	Tyr	Lys	Ser	Leu	Gln	Ala	Trp				
	610					615					620								
Lys	Asp	His	Lys	Leu	His	Ile	Asp	His	Glu	Ile	Glu	Thr	Leu	Gln	Asn				
625					630					635					640				
Lys	Ile	Lys	Asn	Leu	Arg	Glu	Val	Arg	Gly	His	Leu	Lys	Lys	Lys	Arg				
			645						650					655					
Pro	Glu	Glu	Cys	Asp	Cys	His	Lys	Ile	Ser	Tyr	His	Thr	Gln	His	Lys				
			660					665					670						
Gly	Arg	Leu	Lys	His	Arg	Gly	Ser	Ser	Leu	His	Pro	Phe	Arg	Lys	Gly				
		675					680					685							
Leu	Gln	Glu	Lys	Asp	Lys	Val	Trp	Leu	Leu	Arg	Glu	Gln	Lys	Arg	Lys				
	690					695					700								
Lys	Lys	Leu	Arg	Lys	Leu	Leu	Lys	Arg	Leu	Gln	Asn	Asn	Asp	Thr	Cys				
705					710					715					720				
Ser	Met	Pro	Gly	Leu	Thr	Cys	Phe	Thr	His	Asp	Asn	Gln	His	Trp	Gln				
			725					730						735					
Thr	Ala	Pro	Phe	Trp	Thr	Leu	Gly	Pro	Phe	Cys	Ala	Cys	Thr	Ser	Ala				
			740					745					750						
Asn	Asn	Asn	Thr	Tyr	Trp	Cys	Met	Arg	Thr	Ile	Asn	Glu	Thr	His	Asn				
		755					760					765							
Phe	Leu	Phe	Cys	Glu	Phe	Ala	Thr	Gly	Phe	Leu	Glu	Tyr	Phe	Asp	Leu				
	770					775					780								
Asn	Thr	Asp	Pro	Tyr	Gln	Leu	Met	Asn	Ala	Val	Asn	Thr	Leu	Asp	Arg				
785					790					795				800					
Asp	Val	Leu	Asn	Gln	Leu	His	Val	Gln	Leu	Met	Glu	Leu	Arg	Ser	Cys				
			805					810						815					
Lys	Gly	Tyr	Lys	Gln	Cys	Asn	Pro	Arg	Thr	Arg	Asn	Met	Asp	Leu	Gly				
			820					825					830						
Leu	Lys	Asp	Gly	Gly	Ser	Tyr	Glu	Gln	Tyr	Arg	Gln	Phe	Gln	Arg	Arg				
		835					840					845							
Lys	Trp	Pro	Glu	Met	Lys	Arg	Pro	Ser	Ser	Lys	Ser	Leu	Gly	Gln	Leu				
	850					855					860								
Trp	Glu	Gly	Trp	Glu	Gly														
865					870														

<210> 650  
 <211> 870  
 <212> PRT  
 <213> Homo sapiens

<400> 650

Met Gly Pro Pro Ser Leu Val Leu Cys Leu Leu Ser Ala Thr Val Phe  
 1 5 10 15

Ser Leu Leu Gly Gly Ser Ser Ala Phe Leu Ser His His Arg Leu Lys  
 20 25 30

Gly Arg Phe Gln Arg Asp Arg Arg Asn Ile Arg Pro Asn Ile Ile Leu  
 35 40 45

Val Leu Thr Asp Asp Gln Asp Val Glu Leu Gly Ser Met Gln Val Met  
 50 55 60

Asn Lys Thr Arg Arg Ile Met Glu Gln Gly Gly Ala His Phe Ile Asn  
 65 70 75 80

Ala Phe Val Thr Thr Pro Met Cys Cys Pro Ser Arg Ser Ser Ile Leu  
 85 90 95

Thr Gly Lys Tyr Val His Asn His Asn Thr Tyr Thr Asn Asn Glu Asn  
 100 105 110

Cys Ser Ser Pro Ser Trp Gln Ala Gln His Glu Ser Arg Thr Phe Ala  
 115 120 125

Val Tyr Leu Asn Ser Thr Gly Tyr Arg Thr Ala Phe Phe Gly Lys Tyr  
 130 135 140

Leu Asn Glu Tyr Asn Gly Ser Tyr Val Pro Pro Gly Trp Lys Glu Trp  
 145 150 155 160

Val Gly Leu Leu Lys Asn Ser Arg Phe Tyr Asn Tyr Thr Leu Cys Arg  
 165 170 175

Asn Gly Val Lys Glu Lys His Gly Ser Asp Tyr Ser Lys Asp Tyr Leu  
 180 185 190

Thr Asp Leu Ile Thr Asn Asp Ser Val Ser Phe Phe Arg Thr Ser Lys  
 195 200 205

Lys Met Tyr Pro His Arg Pro Val Leu Met Val Ile Ser His Ala Ala  
 210 215 220

Pro His Gly Pro Glu Asp Ser Ala Pro Gln Tyr Ser Arg Leu Phe Pro  
 225 230 235 240

Asn Ala Ser Gln His Ile Thr Pro Ser Tyr Asn Tyr Ala Pro Asn Pro  
 245 250 255

Asp Lys His Trp Ile Met Arg Tyr Thr Gly Pro Met Lys Pro Ile His  
 260 265 270

Met Glu Phe Thr Asn Met Leu Gln Arg Lys Arg Leu Gln Thr Leu Met  
 275 280 285

Ser Val Asp Asp Ser Met Glu Thr Ile Tyr Asn Met Leu Val Glu Thr  
 290 295 300  
 Gly Glu Leu Asp Asn Thr Tyr Ile Val Tyr Thr Ala Asp His Gly Tyr  
 305 310 315 320  
 His Ile Gly Gln Phe Gly Leu Val Lys Gly Lys Ser Met Pro Tyr Glu  
 325 330 335  
 Phe Asp Ile Arg Val Pro Phe Tyr Val Arg Gly Pro Asn Val Glu Ala  
 340 345 350  
 Gly Cys Leu Asn Pro His Ile Val Leu Asn Ile Asp Leu Ala Pro Thr  
 355 360 365  
 Ile Leu Asp Ile Ala Gly Leu Asp Ile Pro Ala Asp Met Asp Gly Lys  
 370 375 380  
 Ser Ile Leu Lys Leu Leu Asp Thr Glu Arg Pro Val Asn Arg Phe His  
 385 390 395 400  
 Leu Lys Lys Lys Met Arg Val Trp Arg Asp Ser Phe Leu Val Glu Arg  
 405 410 415  
 Gly Lys Leu Leu His Lys Arg Asp Asn Asp Lys Val Asp Ala Gln Glu  
 420 425 430  
 Glu Asn Phe Leu Pro Lys Tyr Gln Arg Val Lys Asp Leu Cys Gln Arg  
 435 440 445  
 Ala Glu Tyr Gln Thr Ala Cys Glu Gln Leu Gly Gln Lys Trp Gln Cys  
 450 455 460  
 Val Glu Asp Ala Thr Gly Lys Leu Lys Leu His Lys Cys Lys Gly Pro  
 465 470 475 480  
 Met Arg Leu Gly Gly Ser Arg Ala Leu Ser Asn Leu Val Pro Lys Tyr  
 485 490 495  
 Tyr Gly Gln Gly Ser Glu Ala Cys Thr Cys Asp Ser Gly Asp Tyr Lys  
 500 505 510  
 Leu Ser Leu Ala Gly Arg Arg Lys Lys Leu Phe Lys Lys Lys Tyr Lys  
 515 520 525  
 Ala Ser Tyr Val Arg Ser Arg Ser Ile Arg Ser Val Ala Ile Glu Val  
 530 535 540  
 Asp Gly Arg Val Tyr His Val Gly Leu Gly Asp Ala Ala Gln Pro Arg  
 545 550 555 560  
 Asn Leu Thr Lys Arg His Trp Pro Gly Ala Pro Glu Asp Gln Asp Asp  
 565 570 575  
 Lys Asp Gly Gly Asp Phe Ser Gly Thr Gly Gly Leu Pro Asp Tyr Ser  
 580 585 590  
 Ala Ala Asn Pro Ile Lys Val Thr His Arg Cys Tyr Ile Leu Glu Asn  
 595 600 605

Asp Thr Val Gln Cys Asp Leu Asp Leu Tyr Lys Ser Leu Gln Ala Trp  
 610 615 620  
 Lys Asp His Lys Leu His Ile Asp His Glu Ile Glu Thr Leu Gln Asn  
 625 630 635 640  
 Lys Ile Lys Asn Leu Arg Glu Val Arg Gly His Leu Lys Lys Lys Arg  
 645 650 655  
 Pro Glu Glu Cys Asp Cys His Lys Ile Ser Tyr His Thr Gln His Lys  
 660 665 670  
 Gly Arg Leu Lys His Arg Gly Ser Ser Leu His Pro Phe Arg Lys Gly  
 675 680 685  
 Leu Gln Glu Lys Asp Lys Val Trp Leu Leu Arg Glu Gln Lys Arg Lys  
 690 695 700  
 Lys Lys Leu Arg Lys Leu Leu Lys Arg Leu Gln Asn Asn Asp Thr Cys  
 705 710 715 720  
 Ser Met Pro Gly Leu Thr Cys Phe Thr His Asp Asn Gln His Trp Gln  
 725 730 735  
 Thr Ala Pro Phe Trp Thr Leu Gly Pro Phe Cys Ala Cys Thr Ser Ala  
 740 745 750  
 Asn Asn Asn Thr Tyr Trp Cys Met Arg Thr Ile Asn Glu Thr His Asn  
 755 760 765  
 Phe Leu Phe Cys Glu Phe Ala Thr Gly Phe Leu Glu Tyr Phe Asp Leu  
 770 775 780  
 Asn Thr Asp Pro Tyr Gln Leu Met Asn Ala Val Asn Thr Leu Asp Arg  
 785 790 795 800  
 Asp Val Leu Asn Gln Leu His Val Gln Leu Met Glu Leu Arg Ser Cys  
 805 810 815  
 Lys Gly Tyr Lys Gln Cys Asn Pro Arg Thr Arg Asn Met Asp Leu Gly  
 820 825 830  
 Leu Lys Asp Gly Gly Ser Tyr Glu Gln Tyr Arg Gln Phe Gln Arg Arg  
 835 840 845  
 Lys Trp Pro Glu Met Lys Arg Pro Ser Ser Lys Ser Leu Gly Gln Leu  
 850 855 860  
 Trp Glu Gly Trp Glu Gly  
 865 870

&lt;210&gt; 651

&lt;211&gt; 204

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 651

Met Met Pro Leu Leu Ser Leu Ile Phe Ser Ala Leu Phe Ile Leu Phe  
 1 5 10 15

Gly Thr Val Ile Val Gln Ala Phe Ser Asp Ser Asn Asp Glu Arg Glu  
 20 25 30

Ser Ser Pro Pro Glu Lys Glu Glu Ala Gln Glu Lys Thr Gly Lys Thr  
 35 40 45

Glu Pro Ser Phe Thr Lys Glu Asn Ser Ser Lys Ile Pro Lys Lys Gly  
 50 55 60

Phe Val Glu Val Thr Glu Leu Thr Asp Val Thr Tyr Thr Ser Asn Leu  
 65 70 75 80

Val Arg Leu Arg Pro Gly His Met Asn Val Val Leu Ile Leu Ser Asn  
 85 90 95

Ser Thr Lys Thr Ser Leu Leu Gln Lys Phe Ala Leu Glu Val Tyr Thr  
 100 105 110

Phe Thr Gly Ser Ser Cys Leu His Phe Ser Phe Leu Ser Leu Asp Lys  
 115 120 125

His Arg Glu Trp Leu Glu Tyr Leu Leu Glu Phe Ala Gln Asp Ala Ala  
 130 135 140

Pro Ile Pro Asn Gln Tyr Asp Lys His Phe Met Glu Arg Asp Tyr Thr  
 145 150 155 160

Gly Tyr Val Leu Ala Leu Asn Gly His Lys Lys Tyr Phe Cys Leu Phe  
 165 170 175

Lys Pro Gln Lys Thr Val Glu Glu Glu Glu Ala Ile Gly Ser Cys Ser  
 180 185 190

Asp Val Asp Ser Ser Leu Tyr Leu Gly Glu Ser Arg  
 195 200

&lt;210&gt; 652

&lt;211&gt; 332

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (204)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (283)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (305)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 652

Met Glu Val Arg Lys Leu Ser Ile Ser Trp Gln Phe Leu Ile Val Leu  
 1 5 10 15

Val Leu Ile Leu Gln Ile Leu Ser Ala Leu Asp Phe Asp Pro Tyr Arg  
 20 25 30

Val Leu Gly Val Ser Arg Thr Ala Ser Gln Ala Asp Ile Lys Lys Ala  
 35 40 45

Tyr Lys Lys Leu Ala Arg Glu Trp His Pro Asp Lys Asn Lys Asp Pro  
 50 55 60

Gly Ala Glu Asp Lys Phe Ile Gln Ile Ser Lys Ala Tyr Glu Ile Leu  
 65 70 75 80

Ser Asn Glu Glu Lys Arg Ser Asn Tyr Asp Gln Tyr Gly Asp Ala Gly  
 85 90 95

Glu Asn Gln Gly Tyr Gln Lys Gln Gln Gln Arg Glu Tyr Arg Phe  
 100 105 110

Arg His Phe His Glu Asn Phe Tyr Phe Asp Glu Ser Phe Phe His Phe  
 115 120 125

Pro Phe Asn Ser Glu Arg Arg Asp Ser Ile Asp Glu Lys Tyr Leu Leu  
 130 135 140

His Phe Ser His Tyr Val Asn Glu Val Val Pro Asp Ser Phe Lys Lys  
 145 150 155 160

Pro Tyr Leu Ile Lys Ile Thr Ser Asp Trp Cys Phe Ser Cys Ile His  
 165 170 175

Ile Glu Pro Val Trp Lys Glu Val Ile Gln Glu Leu Glu Glu Leu Gly  
 180 185 190

Val Gly Ile Gly Val Val His Ala Gly Tyr Glu Xaa Arg Leu Ala His  
 195 200 205

His Leu Gly Ala His Ser Thr Pro Ser Ile Leu Gly Ile Ile Asn Gly  
 210 215 220

Lys Ile Ser Phe Phe His Asn Ala Val Val Arg Glu Asn Leu Arg Gln  
 225 230 235 240

Phe Val Glu Ser Leu Leu Pro Gly Asn Leu Val Glu Lys Val Thr Asn  
 245 250 255

Lys Asn Tyr Val Arg Phe Leu Ser Gly Trp Gln Gln Glu Asn Lys Pro  
 260 265 270

His Val Leu Leu Phe Asp Gln Thr Pro Ile Xaa Pro Leu Leu Tyr Lys  
 275 280 285

Leu Thr Ala Phe Ala Tyr Lys Asp Tyr Leu Ser Phe Gly Tyr Val Tyr  
 290 295 300

Xaa Gly Leu Arg Gly Thr Glu Glu Met Thr Arg Arg Tyr Asn Ile Asn

305                      310                      315                      320  
 Ile Tyr Ala Pro Thr Leu Leu Ala Leu Lys Asn Ile  
                                  325                      330

<210> 653  
 <211> 737  
 <212> PRT  
 <213> Homo sapiens

<400> 653  
 Met Glu Val Arg Lys Leu Ser Ile Ser Trp Gln Phe Leu Ile Val Leu  
   1                                  5                                  10                                  15  
 Val Leu Ile Leu Gln Ile Leu Ser Ala Leu Asp Phe Asp Pro Tyr Arg  
                                   20                                  25                                  30  
 Val Leu Gly Val Ser Arg Thr Ala Ser Gln Ala Asp Ile Lys Lys Ala  
                                   35                                  40                                  45  
 Tyr Lys Lys Leu Ala Arg Glu Trp His Pro Asp Lys Asn Lys Asp Pro  
   50                                  55                                  60  
 Gly Ala Glu Asp Lys Phe Ile Gln Ile Ser Lys Ala Tyr Glu Ile Leu  
   65                                  70                                  75                                  80  
 Ser Asn Glu Glu Lys Arg Ser Asn Tyr Asp Gln Tyr Gly Asp Ala Gly  
                                   85                                  90                                  95  
 Glu Asn Gln Gly Tyr Gln Lys Gln Gln Gln Arg Glu Tyr Arg Phe  
                                   100                                  105                                  110  
 Arg His Phe His Glu Asn Phe Tyr Phe Asp Glu Ser Phe Phe His Phe  
                                   115                                  120                                  125  
 Pro Phe Asn Ser Glu Arg Arg Asp Ser Ile Asp Glu Lys Tyr Leu Leu  
   130                                  135                                  140  
 His Phe Ser His Tyr Val Asn Glu Val Val Pro Asp Ser Phe Lys Lys  
   145                                  150                                  155                                  160  
 Pro Tyr Leu Ile Lys Ile Thr Ser Asp Trp Cys Phe Ser Cys Ile His  
                                   165                                  170                                  175  
 Ile Glu Pro Val Trp Lys Glu Val Ile Gln Glu Leu Glu Glu Leu Gly  
                                   180                                  185                                  190  
 Val Gly Ile Gly Val Val His Ala Gly Tyr Glu Arg Arg Leu Ala His  
                                   195                                  200                                  205  
 His Leu Gly Ala His Ser Thr Pro Ser Ile Leu Gly Ile Ile Asn Gly  
   210                                  215                                  220  
 Lys Ile Ser Phe Phe His Asn Ala Val Val Arg Glu Asn Leu Arg Gln  
   225                                  230                                  235                                  240  
 Phe Val Glu Ser Leu Leu Pro Gly Asn Leu Val Glu Lys Val Thr Asn  
                                   245                                  250                                  255



Lys Asn Tyr Val Arg Phe Leu Ser Gly Trp Gln Gln Glu Asn Lys Pro  
 260 265 270  
 His Val Leu Leu Phe Asp Gln Thr Pro Ile Val Pro Leu Leu Tyr Lys  
 275 280 285  
 Leu Thr Ala Phe Ala Tyr Lys Asp Tyr Leu Ser Phe Gly Tyr Val Tyr  
 290 295 300  
 Val Gly Leu Arg Gly Thr Glu Glu Met Thr Arg Arg Tyr Asn Ile Asn  
 305 310 315 320  
 Ile Tyr Ala Pro Thr Leu Leu Val Phe Lys Glu His Ile Asn Arg Pro  
 325 330 335  
 Ala Asp Val Ile Gln Ala Arg Gly Met Lys Lys Gln Ile Ile Asp Asp  
 340 345 350  
 Phe Ile Thr Arg Asn Lys Tyr Leu Leu Ala Ala Arg Leu Thr Ser Gln  
 355 360 365  
 Lys Leu Phe His Glu Leu Cys Pro Val Lys Arg Ser His Arg Gln Arg  
 370 375 380  
 Lys Tyr Cys Val Val Leu Leu Thr Ala Glu Thr Thr Lys Leu Ser Lys  
 385 390 395 400  
 Pro Phe Glu Ala Phe Leu Ser Phe Ala Leu Ala Asn Thr Gln Asp Thr  
 405 410 415  
 Val Arg Phe Val His Val Tyr Ser Asn Arg Gln Gln Glu Phe Ala Asp  
 420 425 430  
 Thr Leu Leu Pro Asp Ser Glu Ala Phe Gln Gly Lys Ser Ala Val Ser  
 435 440 445  
 Ile Leu Glu Arg Arg Asn Thr Ala Gly Arg Val Val Tyr Lys Thr Leu  
 450 455 460  
 Glu Asp Pro Trp Ile Gly Ser Glu Ser Asp Lys Phe Ile Leu Leu Gly  
 465 470 475 480  
 Tyr Leu Asp Gln Leu Arg Lys Asp Pro Ala Leu Leu Ser Ser Glu Ala  
 485 490 495  
 Val Leu Pro Asp Leu Thr Asp Glu Leu Ala Pro Val Phe Leu Leu Arg  
 500 505 510  
 Trp Phe Tyr Ser Ala Ser Asp Tyr Ile Ser Asp Cys Trp Asp Ser Ile  
 515 520 525  
 Phe His Asn Asn Trp Arg Glu Met Met Pro Leu Leu Ser Leu Ile Phe  
 530 535 540  
 Ser Ala Leu Phe Ile Leu Phe Gly Thr Val Ile Val Gln Ala Phe Ser  
 545 550 555 560  
 Asp Ser Asn Asp Glu Arg Glu Ser Ser Pro Pro Glu Lys Glu Glu Ala  
 565 570 575

Gln Glu Lys Thr Gly Lys Thr Glu Pro Ser Phe Thr Lys Glu Asn Ser  
 580 585 590  
 Ser Lys Ile Pro Lys Lys Gly Phe Val Glu Val Thr Glu Leu Thr Asp  
 595 600 605  
 Val Thr Tyr Thr Ser Asn Leu Val Arg Leu Arg Pro Gly His Met Asn  
 610 615 620  
 Val Val Leu Ile Leu Ser Asn Ser Thr Lys Thr Ser Leu Leu Gln Lys  
 625 630 635 640  
 Phe Ala Leu Glu Val Tyr Thr Phe Thr Gly Ser Ser Cys Leu His Phe  
 645 650 655  
 Ser Phe Leu Ser Leu Asp Lys His Arg Glu Trp Leu Glu Tyr Leu Leu  
 660 665 670  
 Glu Phe Ala Gln Asp Ala Ala Pro Ile Pro Asn Gln Tyr Asp Lys His  
 675 680 685  
 Phe Met Glu Arg Asp Tyr Thr Gly Tyr Val Leu Ala Leu Asn Gly His  
 690 695 700  
 Lys Lys Tyr Phe Cys Leu Phe Lys Pro Gln Lys Thr Val Glu Glu Glu  
 705 710 715 720  
 Glu Ala Ile Gly Ser Cys Ser Asp Val Asp Ser Ser Leu Tyr Leu Gly  
 725 730 735  
 Glu

<210> 654  
 <211> 42  
 <212> PRT  
 <213> Homo sapiens

<400> 654  
 Met Asn Ser Ser Phe Phe Ile Ser Leu Pro Ala Leu Ile Trp Ser Val  
 1 5 10 15  
 Cys Leu Ile Leu Gly Trp Trp Gln Val Ser Ser Gly Lys Val Ala His  
 20 25 30  
 Cys Gly Phe Ile Phe Cys Phe Pro Asn Asn  
 35 40

<210> 655  
 <211> 111  
 <212> PRT  
 <213> Homo sapiens

<400> 655  
 Cys Gly Ser His Arg Met Ser Trp Lys Met Tyr Cys Pro Leu His Phe

1	5	10	15
Ser Gly Arg Val Cys Glu Glu Leu Lys Phe Phe Phe Ser Phe Phe Phe	20	25	30
Phe Leu Arg Arg Ser Leu Thr Pro Ala Gln Ala Thr Ala Gly Asp Ser	35	40	45
Val Ser Lys Lys Gln Arg Glu Glu Arg Lys Lys Glu Lys Lys Glu Gly	50	55	60
Arg Arg Lys Glu Gly Arg Asn Glu Gly Thr Lys Glu Gly Arg Lys Arg	65	70	75
Lys Glu Gly Arg Lys Lys Glu Arg Glu Arg Glu Arg Lys Lys Glu Arg	85	90	95
Lys Lys Glu Arg Lys Lys Glu Lys Lys Lys Lys Thr Gly Thr	100	105	110

<210> 656  
 <211> 42  
 <212> PRT  
 <213> Homo sapiens

<400> 656
Met Asn Ser Ser Phe Phe Ile Ser Leu Pro Ala Leu Ile Trp Ser Val
1 5 10 15
Cys Leu Ile Leu Gly Trp Trp Gln Val Ser Ser Gly Lys Val Ala His
20 25 30
Cys Gly Phe Ile Phe Cys Phe Pro Asn Asn
35 40

<210> 657  
 <211> 128  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (67)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (68)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (70)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>

&lt;221&gt; SITE

&lt;222&gt; (96)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 657

Met Pro Val Phe Val Cys Ser Ile Gly Leu Cys Phe Leu Phe Ser Ile  
 1 5 10 15

Leu Leu Leu Phe Pro Pro Phe Gln Phe Ser Tyr Ile Cys Trp Leu Ser  
 20 25 30

Gln Ala Ser Val Tyr Ser Pro Ser Pro Ser Leu Ser Asn Leu Glu Val  
 35 40 45

Leu Leu Cys Leu Ser Ile Leu Leu Met Ile Ile Phe Pro Phe Leu Ile  
 50 55 60

Ser Ile Xaa Xaa Ile Xaa Ser Ile Gly Arg Leu Ser Thr His Met Gly  
 65 70 75 80

Ala His Thr His Thr His Thr His Thr His Thr His Thr His Thr Xaa  
 85 90 95

Val Cys Tyr Trp Pro Leu Leu Leu Ile Ser Gln Glu Asn Glu Pro Phe  
 100 105 110

Arg Met Phe Leu Pro Leu His Ser Ala Leu Thr Gln Asn Phe Cys Ser  
 115 120 125

&lt;210&gt; 658

&lt;211&gt; 128

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 658

Met Pro Val Phe Val Cys Ser Ile Gly Leu Cys Phe Leu Phe Ser Ile  
 1 5 10 15

Leu Leu Leu Phe Pro Pro Phe Gln Phe Ser Tyr Ile Cys Trp Leu Ser  
 20 25 30

Gln Ala Ser Val Tyr Ser Pro Ser Pro Ser Leu Ser Asn Leu Glu Val  
 35 40 45

Leu Leu Cys Leu Ser Ile Leu Leu Met Ile Ile Phe Pro Phe Leu Ile  
 50 55 60

Ser Ile Ile His Ile Phe Ser Ile Gly Arg Leu Ser Thr His Met Gly  
 65 70 75 80

Ala His Thr His Thr His Thr His Thr His Thr His Thr His Thr Gln  
 85 90 95

Val Cys Tyr Trp Pro Leu Leu Leu Ile Ser Gln Glu Asn Glu Pro Phe  
 100 105 110

Arg Met Phe Leu Pro Leu His Ser Ala Leu Thr Gln Asn Phe Cys Ser  
 115 120 125

<210> 659

<211> 24

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 659

Met Ser Trp Arg Val Trp Ala Leu Xaa Phe Phe Pro Ala Val Cys Val  
 1 5 10 15

Cys Xaa Cys Val Cys Val Tyr Thr  
 20

<210> 660

<211> 65

<212> PRT

<213> Homo sapiens

<400> 660

Val Leu Met Arg Ser Asp Gly Phe Ile Arg Gly Phe Ser Pro Phe Cys  
 1 5 10 15

Trp Ala Leu Leu Leu Leu Pro Pro Arg Glu Glu Gly Cys Val Cys Phe  
 20 25 30

Pro Phe Cys His Asp Cys Lys Phe Pro Val Ala Ser Pro Ser Leu Arg  
 35 40 45

Asn Cys Glu Ser Ile Lys Ala Leu Phe Phe Ile Lys Lys Lys Lys Lys  
 50 55 60

Asn  
 65

<210> 661

<211> 38

<212> PRT

<213> Homo sapiens

&lt;400&gt; 661

Met Ser Trp Arg Val Trp Ala Leu Leu Phe Phe Pro Ala Val Cys Val  
 1 5 10 15

Cys Val Cys Val Cys Val Cys Ala Cys Thr Arg Thr Arg Val Cys Asp  
 20 25 30

Glu Thr Ile Lys Leu Val  
 35

&lt;210&gt; 662

&lt;211&gt; 37

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 662

Met Val Glu Ser Pro Val Cys Gly Leu Leu Glu Gly Trp Phe Phe Leu  
 1 5 10 15

Leu Phe Ser Leu Ala Phe Leu Ser Thr His Leu Phe Ser Glu Ala Ser  
 20 25 30

Pro Leu Ser Ile Leu  
 35

&lt;210&gt; 663

&lt;211&gt; 37

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 663

Met Val Glu Ser Pro Val Cys Gly Leu Leu Glu Gly Trp Phe Phe Leu  
 1 5 10 15

Leu Phe Ser Leu Ala Phe Leu Ser Thr His Leu Phe Ser Glu Ala Ser  
 20 25 30

Pro Leu Ser Ile Leu  
 35

&lt;210&gt; 664

&lt;211&gt; 58

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 664

Met Thr Leu Ser Val Leu Gln His Phe Phe Ile Cys Val Leu Leu Ile  
 1 5 10 15

Leu Leu Leu Asp Thr Asn Leu Cys Arg Gln Ile Ser Ser His Ser Phe  
 20 25 30

Glu Phe Ser Gly Asn Gln Pro Leu Val Phe Cys Cys Ile Ser Ser Ile

35

40

45

Ser Ala Lys Leu Val Leu Asp Gln Ala Gly  
50 55

<210> 665  
<211> 2  
<212> PRT  
<213> Homo sapiens

<400> 665  
Leu Glu  
1

<210> 666  
<211> 58  
<212> PRT  
<213> Homo sapiens

<400> 666  
Met Thr Leu Ser Val Leu Gln His Phe Phe Ile Cys Val Leu Leu Ile  
1 5 10 15

Leu Leu Leu Asp Thr Asn Leu Cys Arg Gln Ile Ser Ser His Ser Phe  
20 25 30

Glu Phe Ser Gly Asn Gln Pro Leu Val Phe Cys Cys Ile Ser Ser Ile  
35 40 45

Ser Ala Lys Leu Val Leu Asp Gln Ala Gly  
50 55

<210> 667  
<211> 124  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (89)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (103)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (104)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE

&lt;222&gt; (113)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (121)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 667

Val	Ala	Gln	Val	Gln	Val	Pro	Gly	Gly	His	Ile	Gly	Leu	Gly	Tyr	Leu
1				5					10					15	

Ala	Arg	Ile	Asp	Phe	His	Arg	Arg	Asp	Gly	Thr	Gly	Gly	Ile	Pro	Ala
			20					25					30		

Arg	Ile	Asp	Gly	Gly	Glu	Ile	Asp	Val	Ala	Leu	Leu	Pro	Gly	Gln	Ala
		35					40					45			

Val	Asp	His	Ile	Met	Ala	Arg	Ala	Cys	Gly	Gly	Glu	His	Leu	Ala	Glu
	50					55					60				

Val	Gly	Arg	Gly	Thr	Val	Gln	Gly	Leu	Leu	Gly	Arg	Ala	Val	Leu	Ala
65					70					75				80	

Ala	Gln	Ala	Arg	Arg	Ala	Pro	Pro	Xaa	Gln	Pro	Leu	Pro	Ala	Thr	Met
				85					90					95	

Gly	Phe	Trp	Gly	Trp	Lys	Xaa	Xaa	Pro	Asn	Arg	Gly	Leu	Trp	Phe	Lys
		100						105					110		

Xaa	Trp	Lys	Pro	Pro	Phe	Gly	Ala	Xaa	Gly	Val	Pro
		115					120				

&lt;210&gt; 668

&lt;211&gt; 283

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (174)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (189)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (205)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 668

Met	Lys	Ile	Val	Pro	Leu	Thr	Ala	Ala	Val	Leu	Ala	Leu	Val	Leu	Ala
1				5					10					15	

Pro	Ala	Ala	His	Ala	Gln	Pro	Ala	Asn	Lys	Ala	Thr	Thr	Val	Ser	Pro
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----



[illegible]

<210> 669

<211> 283

<212> PRT

<213> Homo sapiens

<400> 669

Met Lys Ile Val Pro Leu Thr Ala Ala Val Leu Ala Leu Val Leu Ala  
1 5 10 15

Pro Ala Ala His Ala Gln Pro Ala Asn Lys Ala Thr Thr Val Ser Pro  
                   20                                  25                                  30  
 Thr Ala Ala Ala Phe Leu Ala Gln Phe Ala Thr Glu Gly Asn Asp Ser  
                   35                                  40                                  45  
 Val Ser Trp Ala Gln Phe Glu Ala Phe Arg Lys Gln Arg Tyr Ala Asp  
                   50                                  55                                  60  
 Thr Asp Arg Asn Gln Asp Gly His Val Asp Glu Gln Glu Tyr Val Asp  
                   65                                  70                                  75                                  80  
 Glu Tyr Leu Gln Arg Phe Asp Val Arg Leu Ala Asp Ala Arg Ala Gly  
                                   85                                  90                                  95  
 His Leu Arg Gln Thr Asp Thr Arg Phe Lys Ala Leu Asp Arg Asp Gly  
                                   100                                  105                                  110  
 Asn Gly Ala Ile Ser Arg Ala Glu Tyr Asp Ala Ala Gly Glu Arg Thr  
                                   115                                  120                                  125  
 Trp Ala Gly Tyr Glu Arg Ser Gln Asn Ala Thr Gln Glu Thr Ala Ala  
                                   130                                  135                                  140  
 Ala Ser Ser Arg Asp Pro Leu Lys Met Pro Thr Ser His Thr Ala Asn  
                                   145                                  150                                  155                                  160  
 Gly Met Leu Asp Leu Tyr Asp Arg Asn Lys Asp Gly Ala Val Asp Arg  
                                   165                                  170                                  175  
 Glu Glu Phe Asp Ala Val Arg Ala Ala Ser Phe Ala Ala Thr Asp Thr  
                                   180                                  185                                  190  
 Asp Gly Asn Gly Thr Leu Ser Leu Ala Glu Tyr Thr Ala Glu Phe Glu  
                                   195                                  200                                  205  
 Gly Arg Leu Asp Gln Gln Arg Gln Arg Val Arg Ala Asp Ala Glu Arg  
                                   210                                  215                                  220  
 Gln Ala Arg Val Arg Phe Ala Ser Leu Asp Lys Asp Thr Asp Gly Arg  
                                   225                                  230                                  235                                  240  
 Met Thr Phe Ala Glu Tyr Gln Leu Ser Gly Lys Arg Met Phe Asp Arg  
                                   245                                  250                                  255  
 Ala Asp Ser Asn Gly Asp Gly Val Val Asp Ala Arg Asp Pro Glu Pro  
                                   260                                  265                                  270  
 Val Ala Gly Ala His Ser Ala Asn Gly Asn Arg  
                                   275                                  280

&lt;210&gt; 670

&lt;211&gt; 86

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (4)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (11)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 670

Asn	Leu	Trp	Xaa	Ala	His	Phe	Phe	Leu	Asn	Xaa	Ser	Ser	Ile	Gln	Ile
1				5					10					15	

Glu	Tyr	Pro	Pro	Leu	Ser	Lys	Met	Leu	Glu	Thr	Pro	Lys	Gly	Lys	Gly
			20					25					30		

Trp	Phe	Phe	Gly	Glu	Phe	Phe	Phe	Trp	Val	Phe	Leu	Phe	Phe	Leu	Gly
		35					40					45			

Phe	Ala	Phe	Gly	Phe	Trp	Asn	Ser	Leu	Phe	Val	Leu	Tyr	Leu	Phe	Val
	50					55					60				

Gly	His	Pro	Lys	Ser	Glu	Ile	Cys	Ser	Lys	Ile	Gln	Asn	Val	Lys	Cys
65					70					75					80

Ser	Ser	Glu	His	Phe	Leu
					85

&lt;210&gt; 671

&lt;211&gt; 57

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 671

Met	Gly	Leu	Leu	Pro	Gly	Trp	Leu	Leu	Leu	Trp	Ala	Arg	Leu	Lys	Cys
1				5					10					15	

Phe	Cys	Ala	Val	Gly	Leu	Gly	Ser	Leu	Ala	Ala	Val	Tyr	Gly	Arg	Gly
			20					25					30		

Pro	Gly	Leu	Pro	Gln	Asp	Gln	Leu	Asp	Cys	Val	Leu	Trp	Asp	Cys	Gly
	35						40					45			

Thr	Leu	Gly	Leu	Tyr	Arg	Gly	Gln	Phe
	50						55	

&lt;210&gt; 672

&lt;211&gt; 12

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (8)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 672

Leu Phe Ser Gly Trp Leu Val Xaa Leu Cys Gly Val  
1 5 10

&lt;210&gt; 673

&lt;211&gt; 48

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (31)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 673

Met Gly Glu Thr Leu Val Ser Val Phe Leu Lys Pro Pro Ala Leu Thr  
1 5 10 15

Trp Leu Leu Arg Ala Ile Cys Leu Met Val Gln Thr Trp Ala Xaa Gly  
20 25 30

Gln Arg Ser Trp Pro Gln Ser Leu Ala Leu Pro Cys Tyr Leu Asn Arg  
35 40 45

&lt;210&gt; 674

&lt;211&gt; 29

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (3)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (13)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (17)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (19)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (23)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 674

Met Leu Xaa Ser Asn Ser Phe Ser Pro Ser Leu Ser Xaa Tyr Leu Cys  
 1 5 10 15

Xaa Leu Xaa Phe Ser Leu Xaa Ser Ser Lys Ser Ser Lys  
 20 25

&lt;210&gt; 675

&lt;211&gt; 29

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 675

Met Leu Cys Ser Asn Ser Phe Ser Pro Ser Leu Ser Val Tyr Leu Cys  
 1 5 10 15

Ser Leu Cys Phe Ser Leu Val Ser Ser Lys Ser Ser Lys  
 20 25

&lt;210&gt; 676

&lt;211&gt; 57

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 676

Met Pro Pro His Arg Gln Thr Asp Gly Gln Met Gly Leu Pro Ala Pro  
 1 5 10 15

Ala Leu Trp Val Trp Gly Leu Leu Leu Ser Ser Ser Phe Gln Thr Leu  
 20 25 30

Leu Pro Ala Phe Pro Lys Pro Pro Ala Leu Asn Leu Gly Cys Ser Thr  
 35 40 45

Arg Pro Ile Pro Ser Phe Leu Lys Ile  
 50 55

&lt;210&gt; 677

&lt;211&gt; 93

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (24)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (65)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 677

Gln Val Ser Leu Pro Thr Arg Leu Leu Gln Met Pro Gly Met Gly Leu  
 1 5 10 15  
 Asp Ser Arg Phe Gln Ala Trp Xaa Pro Ser Pro Tyr Leu Gly Pro Gln  
 20 25 30  
 Pro Arg Ala Pro Arg Pro Gly Leu Gln Pro Gly Pro Ser Leu Arg Gly  
 35 40 45  
 Ala Glu Phe Arg Glu Ser Cys Pro Arg Ser Gln Lys Arg Gly Arg Glu  
 50 55 60  
 Xaa Gly Arg Pro Cys Pro Gly Cys Arg Pro Gly Gly Trp Gly Leu Pro  
 65 70 75 80  
 Ala Arg Leu Gly Gln Pro Gln Leu Gln Thr Gly Pro Gly  
 85 90

<210> 678  
 <211> 57  
 <212> PRT  
 <213> Homo sapiens

<400> 678  
 Met Pro Pro His Arg Gln Thr Asp Gly Gln Met Gly Leu Pro Ala Pro  
 1 5 10 15  
 Ala Leu Trp Val Trp Gly Leu Leu Leu Ser Ser Ser Phe Gln Thr Leu  
 20 25 30  
 Leu Pro Ala Phe Pro Lys Pro Pro Ala Leu Asn Leu Gly Cys Ser Thr  
 35 40 45  
 Arg Pro Ile Pro Ser Phe Leu Lys Ile  
 50 55

<210> 679  
 <211> 25  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (13)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 679  
 Met Val Gly Arg Cys Ser Ile Leu Ser Ser Thr Pro Xaa Arg His Pro  
 1 5 10 15  
 Ser Leu Ser Trp Glu Gly Leu Gly Gly  
 20 25

<210> 680

<211> 25  
<212> PRT  
<213> Homo sapiens

<400> 680  
Met Val Gly Arg Cys Ser Ile Leu Ser Ser Thr Pro Gln Arg His Pro  
1 5 10 15

Ser Leu Ser Trp Glu Gly Leu Gly Gly  
20 25

<210> 681  
<211> 18  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (13)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 681  
Met Gly Thr Gln Gly Cys Pro His Pro Ser Trp Leu Xaa Leu Leu Gly  
1 5 10 15

Leu Ser

<210> 682  
<211> 30  
<212> PRT  
<213> Homo sapiens

<400> 682  
Met Gly Thr Gln Gly Cys Pro His Pro Ser Trp Leu Leu Leu Leu Gly  
1 5 10 15

Leu Ser Trp Trp Gly Glu Gly Asp Gly Ala Val Gly Pro Cys  
20 25 30

<210> 683  
<211> 10  
<212> PRT  
<213> Homo sapiens

<400> 683  
Ser Leu Leu Glu Leu Gly Leu Gly Pro Leu  
1 5 10

<210> 684  
<211> 206  
<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 684

Asp Xaa Xaa Pro Gly Ala Tyr Ala Gly Phe Arg Pro Asn Ala Asn Arg  
1 5 10 15

Ile Ser Phe Pro Val Phe Arg Asn Asn Val Cys Pro Trp Pro Glu Ala  
20 25 30

Leu Arg Ser Ala Pro Lys Leu Leu Xaa Leu Asp Glu Pro Met Gly Ala  
35 40 45

Leu Asp Lys Lys Leu Arg Asp Arg Met Gln Leu Glu Val Val Asp Ile  
50 55 60

Leu Glu Arg Val Gly Val Thr Cys Val Met Val Thr His Asp Gln Glu  
65 70 75 80

Glu Ala Met Thr Met Ala Gly Arg Ile Ala Ile Met Asn Arg Gly Lys  
85 90 95

Phe Val Gln Ile Gly Glu Pro Glu Glu Ile Tyr Glu His Pro Thr Thr  
100 105 110

Arg Tyr Ser Ala Glu Phe Ile Gly Ser Val Asn Val Phe Glu Gly Val  
115 120 125

Leu Lys Glu Arg Gln Glu Asp Gly Leu Val Leu Asp Ser Pro Gly Leu  
130 135 140

Val His Pro Leu Lys Val Asp Ala Asp Ala Ser Val Val Asp Asn Val  
145 150 155 160

Pro Val His Val Ala Leu Arg Pro Glu Lys Ile Met Leu Cys Glu Glu  
165 170 175

Pro Pro Ala Asn Gly Cys Asn Phe Ala Val Gly Glu Val Ile His Ile  
180 185 190

Ala Tyr Leu Gly Asp Leu Ser Val Tyr His Val Arg Leu Lys  
195 200 205

<210> 685



<211> 440  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (168)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (169)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (173)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (180)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (191)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 685  
 Met Ala Ser Leu Val Ser Leu Glu Leu Gly Leu Leu Leu Ala Val Leu  
     1                    5                    10                    15

Val Val Thr Ala Thr Ala Ser Pro Pro Ala Gly Leu Leu Ser Leu Leu  
                     20                    25                    30

Thr Ser Gly Gln Gly Ala Leu Asp Gln Glu Ala Leu Gly Gly Leu Leu  
                     35                    40                    45

Asn Thr Leu Ala Asp Arg Val His Cys Ala Asn Gly Pro Cys Gly Lys  
     50                    55                    60

Cys Leu Ser Val Glu Asp Ala Leu Gly Leu Gly Glu Pro Glu Gly Ser  
     65                    70                    75                    80

Gly Leu Pro Pro Gly Pro Val Leu Glu Ala Arg Tyr Val Ala Arg Leu  
                     85                    90                    95

Ser Ala Ala Ala Val Leu Tyr Leu Ser Asn Pro Glu Gly Thr Cys Glu  
                     100                    105                    110

Asp Ala Arg Ala Gly Leu Trp Ala Ser His Ala Asp His Leu Leu Ala  
     115                    120                    125

Leu Leu Glu Ser Pro Lys Ala Leu Thr Pro Gly Leu Ser Trp Leu Leu  
     130                    135                    140

Gln Arg Met Gln Ala Arg Ala Ala Gly Gln Thr Pro Lys Thr Ala Cys  
     145                    150                    155                    160

Val Asp Ile Pro Gln Leu Leu Xaa Xaa Ala Val Gly Xaa Gly Ala Pro  
 165 170 175  
 Gly Ser Ala Xaa Gly Val Leu Ala Ala Leu Leu Asp His Val Xaa Ser  
 180 185 190  
 Gly Ser Cys Phe His Ala Leu Pro Ser Pro Gln Tyr Phe Val Asp Phe  
 195 200 205  
 Val Phe Gln Gln His Ser Ser Glu Val Pro Met Thr Leu Ala Glu Leu  
 210 215 220  
 Ser Ala Leu Met Gln Arg Leu Gly Val Gly Arg Glu Ala His Ser Asp  
 225 230 235 240  
 His Ser His Arg His Arg Gly Ala Ser Ser Arg Asp Pro Val Pro Leu  
 245 250 255  
 Ile Ser Ser Ser Asn Ser Ser Ser Val Trp Asp Thr Val Cys Leu Ser  
 260 265 270  
 Ala Arg Asp Val Met Ala Ala Tyr Gly Leu Ser Glu Gln Ala Gly Val  
 275 280 285  
 Thr Pro Glu Ala Trp Ala Gln Leu Ser Pro Ala Leu Leu Gln Gln Gln  
 290 295 300  
 Leu Ser Gly Ala Cys Thr Ser Gln Ser Arg Pro Pro Val Gln Asp Gln  
 305 310 315 320  
 Leu Ser Gln Ser Glu Arg Tyr Leu Tyr Gly Ser Leu Ala Thr Leu Leu  
 325 330 335  
 Ile Cys Leu Cys Ala Val Phe Gly Leu Leu Leu Leu Thr Cys Thr Gly  
 340 345 350  
 Cys Arg Gly Val Thr His Tyr Ile Leu Gln Thr Phe Leu Ser Leu Ala  
 355 360 365  
 Val Gly Ala Leu Thr Gly Asp Ala Val Leu His Leu Thr Pro Lys Val  
 370 375 380  
 Leu Gly Leu His Thr His Ser Glu Glu Gly Leu Ser Pro Gln Pro Thr  
 385 390 395 400  
 Trp Arg Leu Leu Ala Met Leu Ala Gly Leu Tyr Ala Phe Phe Leu Phe  
 405 410 415  
 Glu Asn Leu Phe Asn Leu Leu Leu Pro Arg Asp Pro Glu Asp Leu Glu  
 420 425 430  
 Asp Gly Pro Ala Ala Thr Ala Ala  
 435 440

&lt;210&gt; 686

&lt;211&gt; 647

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 686

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Met Ala Ser Leu Val Ser Leu Glu Leu Gly Leu Leu Leu Ala Val Leu
 1              5              10              15

Val Val Thr Ala Thr Ala Ser Pro Pro Ala Gly Leu Leu Ser Leu Leu
      20              25              30

Thr Ser Gly Gln Gly Ala Leu Asp Gln Glu Ala Leu Gly Gly Leu Leu
      35              40              45

Asn Thr Leu Ala Asp Arg Val His Cys Ala Asn Gly Pro Cys Gly Lys
 50              55              60

Cys Leu Ser Val Glu Asp Ala Leu Gly Leu Gly Glu Pro Glu Gly Ser
 65              70              75              80

Gly Leu Pro Pro Gly Pro Val Leu Glu Ala Arg Tyr Val Ala Arg Leu
      85              90              95

Ser Ala Ala Ala Val Leu Tyr Leu Ser Asn Pro Glu Gly Thr Cys Glu
      100              105              110

Asp Ala Arg Ala Gly Leu Trp Ala Ser His Ala Asp His Leu Leu Ala
      115              120              125

Leu Leu Glu Ser Pro Lys Ala Leu Thr Pro Gly Leu Ser Trp Leu Leu
      130              135              140

Gln Arg Met Gln Ala Arg Ala Ala Gly Gln Thr Pro Lys Thr Ala Cys
      145              150              155              160

Val Asp Ile Pro Gln Leu Leu Glu Glu Ala Val Gly Ala Gly Ala Pro
      165              170              175

Gly Ser Ala Gly Gly Val Leu Ala Ala Leu Leu Asp His Val Arg Ser
      180              185              190

Gly Ser Cys Phe His Ala Leu Pro Ser Pro Gln Tyr Phe Val Asp Phe
      195              200              205

Val Phe Gln Gln His Ser Ser Glu Val Pro Met Thr Leu Ala Glu Leu
      210              215              220

Ser Ala Leu Met Gln Arg Leu Gly Val Gly Arg Glu Ala His Ser Asp
      225              230              235              240

His Ser His Arg His Arg Gly Ala Ser Ser Arg Asp Pro Val Pro Leu
      245              250              255

Ile Ser Ser Ser Asn Ser Ser Ser Val Trp Asp Thr Val Cys Leu Ser
      260              265              270

Ala Arg Asp Val Met Ala Ala Tyr Gly Leu Ser Glu Gln Ala Gly Val
      275              280              285

Thr Pro Glu Ala Trp Ala Gln Leu Ser Pro Ala Leu Leu Gln Gln Gln
      290              295              300

Leu Ser Gly Ala Cys Thr Ser Gln Ser Arg Pro Pro Val Gln Asp Gln

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305		310		315		320
Leu Ser Gln Ser Glu Arg Tyr Leu Tyr Gly Ser Leu Ala Thr Leu Leu	325		330		335	
Ile Cys Leu Cys Ala Val Phe Gly Leu Leu Leu Thr Cys Thr Gly	340		345		350	
Cys Arg Gly Val Thr His Tyr Ile Leu Gln Thr Phe Leu Ser Leu Ala	355		360		365	
Val Gly Ala Leu Thr Gly Asp Ala Val Leu His Leu Thr Pro Lys Val	370		375		380	
Leu Gly Leu His Thr His Ser Glu Glu Gly Leu Ser Pro Gln Pro Thr	385		390		395	400
Trp Arg Leu Leu Ala Met Leu Ala Gly Leu Tyr Ala Phe Phe Leu Phe	405		410		415	
Glu Asn Leu Phe Asn Leu Leu Leu Pro Arg Asp Pro Glu Asp Leu Glu	420		425		430	
Asp Gly Pro Cys Gly His Ser Ser His Ser His Gly Gly His Ser His	435		440		445	
Gly Val Ser Leu Gln Leu Ala Pro Ser Glu Leu Arg Gln Pro Lys Pro	450		455		460	
Pro His Glu Gly Ser Arg Ala Asp Leu Val Ala Glu Glu Ser Pro Glu	465		470		475	480
Leu Leu Asn Pro Glu Pro Arg Arg Leu Ser Pro Glu Leu Arg Leu Leu	485		490		495	
Pro Tyr Met Ile Thr Leu Gly Asp Ala Val His Asn Phe Ala Asp Gly	500		505		510	
Leu Ala Val Gly Ala Ala Phe Ala Ser Ser Trp Lys Thr Gly Leu Ala	515		520		525	
Thr Ser Leu Ala Val Phe Cys His Glu Leu Pro His Glu Leu Gly Asp	530		535		540	
Phe Ala Ala Leu Leu His Ala Gly Leu Ser Val Arg Gln Ala Leu Leu	545		550		555	560
Leu Asn Leu Ala Ser Ala Leu Thr Ala Phe Ala Gly Leu Tyr Val Ala	565		570		575	
Leu Ala Val Gly Val Ser Glu Glu Ser Glu Ala Trp Ile Leu Ala Val	580		585		590	
Ala Thr Gly Leu Phe Leu Tyr Val Ala Leu Cys Asp Met Leu Pro Ala	595		600		605	
Met Leu Lys Val Arg Asp Pro Arg Pro Trp Leu Leu Phe Leu Leu His	610		615		620	
Asn Val Gly Leu Leu Gly Gly Trp Thr Val Leu Leu Leu Leu Ser Leu						

625

630

635

640

Tyr Glu Asp Asp Ile Thr Phe  
645

&lt;210&gt; 687

&lt;211&gt; 49

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (48)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 687

Ile Ser Val Ile Phe Asn Asp Thr Val Lys Lys Thr Met Gln Glu Cys  
1 5 10 15

Ser Ala Met Lys Gln Ile Phe Lys Asp Leu Phe Thr Gly Phe Leu Ser  
20 25 30

Trp Asn Ile His Leu Phe Pro Arg Cys Leu Cys Asp Ser Glu Ile Xaa  
35 40 45

Pro

&lt;210&gt; 688

&lt;211&gt; 307

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (249)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (261)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 688

Met Leu Arg Val Val Glu Gly Ile Phe Ile Phe Val Val Val Ser Glu  
1 5 10 15

Ser Val Phe Gly Val Leu Gly Asn Gly Phe Ile Gly Leu Val Asn Cys  
20 25 30

Ile Asp Cys Ala Lys Asn Lys Leu Ser Thr Ile Gly Phe Ile Leu Thr  
35 40 45

Gly Leu Ala Ile Ser Arg Ile Phe Leu Ile Trp Ile Ile Ile Thr Asp  
50 55 60

Gly Phe Ile Gln Ile Phe Ser Pro Asn Ile Tyr Ala Ser Gly Asn Leu  
 65 70 75 80  
 Ile Glu Tyr Ile Ser Tyr Phe Trp Val Ile Gly Asn Gln Ser Ser Met  
 85 90 95  
 Trp Phe Ala Thr Ser Leu Ser Ile Phe Tyr Phe Leu Lys Ile Ala Asn  
 100 105 110  
 Phe Ser Asn Tyr Ile Phe Leu Trp Leu Lys Ser Arg Thr Asn Met Val  
 115 120 125  
 Leu Pro Phe Met Ile Val Phe Leu Leu Ile Ser Ser Leu Leu Asn Phe  
 130 135 140  
 Ala Tyr Ile Ala Lys Ile Leu Asn Asp Tyr Lys Met Lys Asn Asp Thr  
 145 150 155 160  
 Val Trp Asp Leu Asn Met Tyr Lys Ser Glu Tyr Phe Ile Lys Gln Ile  
 165 170 175  
 Leu Leu Asn Leu Gly Val Ile Phe Phe Phe Thr Leu Ser Leu Ile Thr  
 180 185 190  
 Cys Ile Phe Leu Ile Ile Ser Leu Trp Arg His Asn Arg Gln Met Gln  
 195 200 205  
 Ser Asn Val Thr Gly Leu Arg Asp Ser Asn Thr Glu Ala His Val Lys  
 210 215 220  
 Ala Met Lys Val Leu Ile Ser Phe Ile Ile Leu Phe Ile Leu Tyr Phe  
 225 230 235 240  
 Ile Gly Met Ala Ile Glu Ile Ser Xaa Phe Thr Val Arg Glu Asn Lys  
 245 250 255  
 Leu Leu Leu Met Xaa Gly Met Thr Thr Thr Ala Ile Tyr Pro Trp Gly  
 260 265 270  
 His Ser Phe Ile Leu Ile Leu Gly Asn Ser Lys Leu Lys Gln Ala Ser  
 275 280 285  
 Leu Arg Val Leu Gln Gln Leu Lys Cys Cys Glu Lys Arg Lys Asn Leu  
 290 295 300  
 Arg Val Thr  
 305

&lt;210&gt; 689

&lt;211&gt; 181

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 689

Met Val Leu Pro Phe Met Ile Val Phe Leu Leu Ile Ser Ser Leu Leu  
 1 5 10 15

Asn Phe Ala Tyr Ile Ala Lys Ile Leu Asn Asp Tyr Lys Met Lys Asn

20 25 30  
 Asp Thr Val Trp Asp Leu Asn Met Tyr Lys Ser Glu Tyr Phe Ile Lys  
 35 40 45  
 Gln Ile Leu Leu Asn Leu Gly Val Ile Phe Phe Phe Thr Leu Ser Leu  
 50 55 60  
 Ile Thr Cys Ile Phe Leu Ile Ile Ser Leu Trp Arg His Asn Arg Gln  
 65 70 75 80  
 Met Gln Ser Asn Val Thr Gly Leu Arg Asp Ser Asn Thr Glu Ala His  
 85 90 95  
 Val Lys Ala Met Lys Val Leu Ile Ser Phe Ile Ile Leu Phe Ile Leu  
 100 105 110  
 Tyr Phe Ile Gly Met Ala Ile Glu Ile Ser Cys Phe Thr Val Arg Glu  
 115 120 125  
 Asn Lys Leu Leu Leu Met Phe Gly Met Thr Thr Thr Ala Ile Tyr Pro  
 130 135 140  
 Trp Gly His Ser Phe Ile Leu Ile Leu Gly Asn Ser Lys Leu Lys Gln  
 145 150 155 160  
 Ala Ser Leu Arg Val Leu Gln Gln Leu Lys Cys Cys Glu Lys Arg Lys  
 165 170 175  
 Asn Leu Arg Val Thr  
 180

<210> 690  
 <211> 70  
 <212> PRT  
 <213> Homo sapiens

<400> 690  
 Ala Ala Met Arg Arg Trp Ala Ser Ser Ser Leu Glu Gly Glu Glu Leu  
 1 5 10 15  
 Ser Thr Gln Arg Asp Leu Thr Arg Lys Val His Pro Pro Ser Thr Gln  
 20 25 30  
 Glu Ala Pro Ala Asp Ser Met Cys Phe Arg Leu Cys Trp Pro Asn Gly  
 35 40 45  
 Leu Cys Arg Asp Tyr Ser Ala Leu Pro Leu Trp Leu Gln Ser Asp His  
 50 55 60  
 Arg Pro Ser Glu Ser Glu  
 65 70

<210> 691  
 <211> 88  
 <212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (73)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 691

Met Pro Val Gly Ser Leu Pro His Pro Gly Cys Leu Trp Ala Ala Phe  
1 5 10 15

Leu Thr Leu Asp Ala Cys Gly Leu Pro Ser Ser Pro Trp Met Pro Val  
20 25 30

Gly Ser Leu Pro His Pro Gly Cys Leu Trp Ala Ala Phe Leu Thr Leu  
35 40 45

Asp Ala Cys Gly Gln Pro Ser Ser Pro Trp Met Pro Val Gly Xaa Leu  
50 55 60

Leu Thr Leu Asp Ala Cys Gly Gln Xaa Ser Ser Pro Gly Cys Leu Trp  
65 70 75 80

Ala Ala Phe Leu Thr Trp Ser Leu  
85

<210> 692

<211> 190

<212> PRT

<213> Homo sapiens

<400> 692

Met Pro Val Gly Ser Leu Pro His Pro Gly Cys Leu Trp Ala Ala Phe  
1 5 10 15

Leu Thr Leu Asp Ala Cys Gly Leu Pro Ser Ser Pro Trp Met Pro Val  
20 25 30

Gly Ser Leu Pro His Pro Gly Cys Leu Trp Ala Ala Phe Leu Thr Leu  
35 40 45

Asp Ala Cys Gly Gln Pro Ser Ser Pro Trp Met Pro Val Gly Cys Leu  
50 55 60

Pro His Pro Gly Cys Leu Trp Ala Ala Phe Leu Thr Leu Asp Ala Cys  
65 70 75 80

Gly Gln Pro Ser Ser Pro Trp Met Pro Val Thr Trp Phe Pro Trp Gly  
85 90 95

Leu Pro Lys Leu Arg Asp Pro Lys Pro Pro Ser Asn Leu Met Thr Arg  
100 105 110



Pro Val Ser Glu His Thr Cys Val Val Pro Glu Pro Leu Thr Asn Pro  
 115 120 125

Leu Cys Asn Pro Ala His Ala Phe Pro Ile Leu Lys Gly Pro Ala His  
 130 135 140

Arg Pro Ala His Val Phe Pro Leu Pro Leu Leu Cys Pro Tyr Leu Val  
 145 150 155 160

Gly Ser Cys Pro Phe Trp Ala Leu Val Trp His Phe Thr His Lys Cys  
 165 170 175

Val Leu Trp Val Val Ser Gly Pro Pro Pro Ala Val Arg Gly  
 180 185 190

<210> 693  
 <211> 38  
 <212> PRT  
 <213> Homo sapiens

<400> 693  
 Met Trp Leu Ser Pro Val Pro Gly Val Cys Ala Ala Val Leu Ala Leu  
 1 5 10 15

Ser Phe Trp Ile Ala Lys Phe Pro Gly Glu Gly Thr Ala Ile Ala Lys  
 20 25 30

Ala Leu Gly Arg Leu Lys  
 35

<210> 694  
 <211> 38  
 <212> PRT  
 <213> Homo sapiens

<400> 694  
 Met Trp Leu Ser Pro Val Pro Gly Val Cys Ala Ala Val Leu Ala Leu  
 1 5 10 15

Ser Phe Trp Ile Ala Lys Phe Pro Gly Glu Gly Thr Ala Ile Ala Lys  
 20 25 30

Ala Leu Gly Arg Leu Lys  
 35

<210> 695  
 <211> 26  
 <212> PRT  
 <213> Homo sapiens

<400> 695  
 Gly Leu Phe Leu Gly Gln Met Asn Trp Ile Phe Ser Cys Cys Phe Ser  
 1 5 10 15

Asn Asn Val Thr Thr Thr Val Lys Lys Arg  
20 25

<210> 696

<211> 166

<212> PRT

<213> Homo sapiens

<400> 696

Met Ser Phe Thr Val Ser Met Ala Ile Gly Leu Val Leu Gly Gly Phe  
1 5 10 15

Ile Trp Ala Val Phe Ile Cys Leu Ser Arg Arg Arg Arg Ala Ser Ala  
20 25 30

Pro Ile Ser Gln Trp Ser Ser Ser Arg Arg Ser Arg Ser Ser Tyr Thr  
35 40 45

His Gly Leu Asn Arg Thr Gly Phe Tyr Arg His Ser Gly Cys Glu Arg  
50 55 60

Arg Ser Asn Leu Ser Leu Ala Ser Leu Thr Phe Gln Arg Gln Ala Ser  
65 70 75 80

Leu Glu Gln Ala Asn Ser Phe Pro Arg Lys Ser Ser Phe Arg Ala Ser  
85 90 95

Thr Phe His Pro Phe Leu Gln Cys Pro Pro Leu Pro Val Glu Thr Glu  
100 105 110

Ser Gln Leu Val Thr Leu Pro Ser Ser Asn Ile Ser Pro Thr Ile Ser  
115 120 125

Thr Ser His Ser Leu Ser Arg Pro Asp Tyr Trp Ser Ser Asn Ser Leu  
130 135 140

Arg Val Gly Leu Ser Thr Pro Pro Pro Pro Ala Tyr Glu Ser Ile Ile  
145 150 155 160

Lys Ala Phe Pro Asp Ser  
165

<210> 697

<211> 166

<212> PRT

<213> Homo sapiens

<400> 697

Met Ser Phe Thr Val Ser Met Ala Ile Gly Leu Val Leu Gly Gly Phe  
1 5 10 15

Ile Trp Ala Val Phe Ile Cys Leu Ser Arg Arg Arg Arg Ala Ser Ala  
20 25 30

Pro Ile Ser Gln Trp Ser Ser Ser Arg Arg Ser Arg Ser Ser Tyr Thr  
35 40 45

His Gly Leu Asn Arg Thr Gly Phe Tyr Arg His Ser Gly Cys Glu Arg  
           50                          55                          60  
 Arg Ser Asn Leu Ser Leu Ala Ser Leu Thr Phe Gln Arg Gln Ala Ser  
       65                          70                          75                          80  
 Leu Glu Gln Ala Asn Ser Phe Pro Arg Lys Ser Ser Phe Arg Ala Ser  
                           85                          90                          95  
 Thr Phe His Pro Phe Leu Gln Cys Pro Pro Leu Pro Val Glu Thr Glu  
                           100                          105                          110  
 Ser Gln Leu Val Thr Leu Pro Ser Ser Asn Ile Ser Pro Thr Ile Ser  
           115                          120                          125  
 Thr Ser His Ser Leu Ser Arg Pro Asp Tyr Trp Ser Ser Asn Ser Leu  
       130                          135                          140  
 Arg Val Gly Leu Ser Thr Pro Pro Pro Pro Ala Tyr Glu Ser Ile Ile  
       145                          150                          155                          160  
 Lys Ala Phe Pro Asp Ser  
                           165

<210> 698  
 <211> 61  
 <212> PRT  
 <213> Homo sapiens

<400> 698  
 Met Val Leu Ile Asn Ser Gly Lys Pro Gly Ser Lys Cys Cys Trp Val  
       1                          5                          10                          15  
 Phe Arg Pro Gly Leu Ser Ala Pro Cys Ser Ala Leu Trp Trp Gly Cys  
           20                          25                          30  
 Pro Gly Leu Ala Leu Ser Leu Ser Gly Pro Gln Val Arg Leu Phe Thr  
           35                          40                          45  
 Arg Arg Tyr Glu Thr Thr Leu Pro Asn Thr Gly Pro Trp  
       50                          55                          60

<210> 699  
 <211> 54  
 <212> PRT  
 <213> Homo sapiens

<400> 699  
 Met Leu Leu Gly Leu Gln Ala Arg Leu Val Ser Ser Leu Leu Cys Ser  
       1                          5                          10                          15  
 Val Val Gly Cys Leu Gly Cys Ser Phe Phe Cys Pro Arg Arg Tyr Tyr  
           20                          25                          30  
 Lys Lys Leu Asn Leu His Lys Ala Cys Met Glu Asn Ser Val Ser Ala

35

40

45

Glu Ile Arg Ser Asp Arg  
50

&lt;210&gt; 700

&lt;211&gt; 240

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens.

&lt;400&gt; 700

Met Ser Arg Tyr Leu Leu Pro Leu Ser Ala Leu Gly Thr Val Ala Gly  
1 5 10 15

Ala Ala Val Leu Leu Lys Asp Tyr Val Thr Gly Gly Ala Cys Pro Ser  
20 25 30

Lys Ala Thr Ile Pro Gly Lys Thr Val Ile Val Thr Gly Ala Asn Thr  
35 40 45

Gly Ile Gly Lys Gln Thr Ala Leu Glu Leu Ala Arg Arg Gly Gly Asn  
50 55 60

Ile Ile Leu Ala Cys Arg Asp Met Glu Lys Cys Glu Ala Ala Ala Lys  
65 70 75 80

Asp Ile Arg Gly Glu Thr Leu Asn His His Val Asn Ala Arg His Leu  
85 90 95

Asp Leu Ala Ser Leu Lys Ser Ile Arg Glu Phe Ala Ala Lys Ile Ile  
100 105 110

Glu Glu Glu Glu Arg Val Asp Ile Leu Ile Asn Asn Ala Gly Val Met  
115 120 125

Arg Cys Pro His Trp Thr Thr Glu Asp Gly Phe Glu Met Gln Phe Gly  
130 135 140

Val Asn His Leu Gly His Phe Leu Leu Thr Asn Leu Leu Leu Asp Lys  
145 150 155 160

Leu Lys Ala Ser Ala Pro Ser Arg Ile Ile Asn Leu Ser Ser Leu Ala  
165 170 175

His Val Ala Gly His Ile Asp Phe Asp Asp Leu Asn Trp Gln Thr Arg  
180 185 190

Lys Tyr Asn Thr Lys Ala Ala Tyr Cys Gln Ser Lys Leu Ala Ile Val  
195 200 205

Leu Phe Thr Lys Glu Leu Ser Arg Arg Leu Gln Gly Thr Gly Ala Leu  
210 215 220

Gly Ser Ala Ser Leu Leu Leu Tyr Ser Glu Pro Arg Ala Ala Phe Pro  
225 230 235 240

<210> 701  
 <211> 246  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (222)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (223)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (236)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (242)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (244)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 701  
 Met Gly Ala Ala Val Phe Phe Gly Cys Thr Phe Val Ala Phe Gly Pro  
     1                    5                    10                    15  
 Ala Phe Ala Leu Phe Leu Ile Thr Val Ala Gly Asp Pro Leu Arg Val  
                     20                    25                    30  
 Ile Ile Leu Val Ala Gly Ala Phe Phe Trp Leu Val Ser Leu Leu Leu  
             35                    40                    45  
 Ala Ser Val Val Trp Phe Ile Leu Val His Val Thr Asp Arg Ser Asp  
     50                    55                    60  
 Ala Arg Leu Gln Tyr Gly Leu Leu Ile Phe Gly Ala Ala Val Ser Val  
     65                    70                    75                    80  
 Leu Leu Gln Glu Val Phe Arg Phe Ala Tyr Tyr Lys Leu Leu Lys Lys  
                     85                    90                    95  
 Ala Asp Glu Gly Leu Ala Ser Leu Ser Glu Asp Gly Arg Ser Pro Ile  
             100                    105                    110  
 Ser Ile Arg Gln Met Ala Tyr Val Ser Gly Leu Ser Phe Gly Ile Ile  
     115                    120                    125  
 Ser Gly Val Phe Ser Val Ile Asn Ile Leu Ala Asp Ala Leu Gly Pro  
     130                    135                    140

Gly Val Val Gly Ile His Gly Asp Ser Pro Tyr Tyr Phe Leu Thr Ser  
 145 150 155 160  
 Ala Phe Leu Thr Ala Ala Ile Ile Leu Leu His Thr Phe Trp Gly Val  
 165 170 175  
 Val Phe Phe Asp Ala Cys Glu Arg Arg Arg Tyr Trp Ala Leu Gly Leu  
 180 185 190  
 Val Val Gly Ser His Leu Leu Thr Ser Gly Leu Thr Phe Leu Asn Pro  
 195 200 205  
 Trp Tyr Glu Ala Ser Leu Leu Pro Ser Met Gln Ser Leu Xaa Xaa Trp  
 210 215 220  
 Gly Ser Gly Pro Ser Ser Gln Leu Glu Gly Pro Xaa Lys Tyr Ser Ala  
 225 230 235 240  
 Gln Xaa Leu Xaa Lys Asp  
 245

<210> 702  
 <211> 5  
 <212> PRT  
 <213> Homo sapiens

<400> 702  
 Gly Glu Ile Phe Leu  
 1 5

<210> 703  
 <211> 84  
 <212> PRT  
 <213> Homo sapiens

<400> 703  
 Lys Met His Phe Asn Lys Asn Lys Ser Ile Leu Lys Ser Phe Ser Phe  
 1 5 10 15  
 Val Arg Gly Asn Met Asn Glu Ile His Ser Tyr Leu Lys Thr Glu Tyr  
 20 25 30  
 Phe Thr Ala Lys Thr Leu Asn Ile Ser Arg Ala Tyr His Ile Leu Asn  
 35 40 45  
 Thr Leu Trp Ser Cys Ser Tyr Phe Asn Ile Pro Gly Ser Gly Gly Gln  
 50 55 60  
 Leu Ala Cys Leu Trp Leu Arg Ile Cys Phe His Ala Cys Phe Leu Ser  
 65 70 75 80  
 Phe Phe Tyr Leu

<210> 704  
 <211> 5  
 <212> PRT  
 <213> Homo sapiens

<400> 704  
 Val Leu Leu Ile Leu  
           1                  5

<210> 705  
 <211> 266  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (45)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (47)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (51)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (134)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (183)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (222)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (224)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (255)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 705  
 Met Pro Arg His Leu Ser Gly Leu Leu Leu Leu Trp Pro Leu Leu  
           1                  5                  10                  15

Leu Leu Leu Pro Pro Thr Pro Ala Ala Pro Gly Pro Leu Ala Arg Pro  
                   20                  25                  30  
 Gly Leu Arg Arg Leu Gly Thr Arg Gly Pro Gly Gly Xaa Pro Xaa Arg  
                   35                  40                  45  
 Arg Pro Xaa Ser Ala Val Pro Thr Arg Ala Pro Tyr Ser Gly Ala Gly  
                   50                  55                  60  
 Gln Pro Gly Gly Ala Arg Gly Ala Gly Val Cys Arg Ser Arg Pro Leu  
                   65                  70                  75                  80  
 Asp Leu Val Phe Ile Ile Asp Ser Ser Arg Ser Val Arg Pro Leu Glu  
                   85                  90                  95  
 Phe Thr Lys Val Lys Thr Phe Val Ser Gln Ile Ile Asp Thr Leu Asp  
                   100                  105                  110  
 Ile Gly Ala Ala Asp Thr Arg Val Ala Val Val Asn Tyr Ala Ser Thr  
                   115                  120                  125  
 Val Lys Ile Glu Phe Xaa Leu Gln Thr His Ser Asp Lys Gln Ser Leu  
                   130                  135                  140  
 Lys Gln Ala Val Ala Arg Ile Thr Pro Leu Ser Thr Gly Thr Met Ser  
                   145                  150                  155                  160  
 Gly Leu Ala Ile Gln Thr Ala Met Asp Glu Ala Phe Thr Val Glu Ala  
                   165                  170                  175  
 Gly Ala Arg Gly Pro Thr Xaa Asn Ile Pro Lys Val Ala Ile Ile Val  
                   180                  185                  190  
 Thr Asp Gly Arg Pro Gln Asp Gln Val Asn Glu Val Ala Ala Arg Ala  
                   195                  200                  205  
 Arg Ala Ser Gly Ile Glu Leu Tyr Ala Val Gly Val Asp Xaa Ala Xaa  
                   210                  215                  220  
 Met Glu Ser Leu Gln Asp Glu Trp Pro Ala Lys Pro Leu Asp Glu His  
                   225                  230                  235                  240  
 Val Phe Tyr Val Glu Thr Tyr Gly Val Ile Glu Lys Pro Ser Xaa Arg  
                   245                  250                  255  
 Phe Gln Glu Thr Leu Leu Arg Ser Trp Asn  
                   260                  265

&lt;210&gt; 706

&lt;211&gt; 484

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 706

Met Pro Arg His Leu Ser Gly Leu Leu Leu Leu Trp Pro Leu Leu  
           1                  5                  10                  15



Leu Leu Leu Pro Pro Thr Pro Ala Ala Pro Gly Pro Leu Ala Arg Pro  
 20 25 30  
 Gly Leu Arg Arg Leu Gly Thr Arg Gly Pro Gly Gly Ser Pro Gly Arg  
 35 40 45  
 Arg Pro Gly Ser Ala Val Pro Thr Arg Ala Pro Tyr Ser Gly Ala Gly  
 50 55 60  
 Gln Pro Gly Gly Ala Arg Gly Ala Gly Val Cys Arg Ser Arg Pro Leu  
 65 70 75 80  
 Asp Leu Val Phe Ile Ile Asp Ser Ser Arg Ser Val Arg Pro Leu Glu  
 85 90 95  
 Phe Thr Lys Val Lys Thr Phe Val Ser Gln Ile Ile Asp Thr Leu Asp  
 100 105 110  
 Ile Gly Ala Ala Asp Thr Arg Val Ala Val Val Asn Tyr Ala Ser Thr  
 115 120 125  
 Val Lys Ile Glu Phe His Leu Gln Thr His Ser Asp Lys Gln Ser Leu  
 130 135 140  
 Lys Gln Ala Val Ala Arg Ile Thr Pro Leu Ser Thr Gly Thr Met Ser  
 145 150 155 160  
 Gly Leu Ala Ile Gln Thr Ala Met Asp Glu Ala Phe Thr Val Glu Ala  
 165 170 175  
 Gly Ala Arg Gly Pro Thr Ser Asn Ile Pro Lys Val Ala Ile Ile Val  
 180 185 190  
 Thr Asp Gly Arg Pro Gln Asp Gln Val Asn Glu Val Ala Ala Arg Ala  
 195 200 205  
 Arg Ala Ser Gly Ile Glu Leu Tyr Ala Val Gly Val Asp Arg Ala Asp  
 210 215 220  
 Met Glu Ser Leu Lys Met Met Ala Ser Glu Pro Leu Asp Glu His Val  
 225 230 235 240  
 Phe Tyr Val Glu Thr Tyr Gly Val Ile Glu Lys Leu Ser Ser Arg Phe  
 245 250 255  
 Gln Glu Thr Phe Cys Ala Leu Asp Pro Cys Val Leu Gly Thr His Arg  
 260 265 270  
 Cys Gln His Val Cys Val Ser Asp Gly Glu Gly Lys His His Cys Glu  
 275 280 285  
 Cys Ser Gln Gly Tyr Ser Leu Asn Ala Asp Gln Lys Thr Cys Ser Ala  
 290 295 300  
 Ile Asp Lys Cys Ala Leu Asn Thr His Gly Cys Glu His Ile Cys Val  
 305 310 315 320  
 Asn Asp Arg Thr Gly Ser Tyr His Cys Glu Cys Tyr Glu Gly Tyr Thr  
 325 330 335

Leu Asn Gln Asp Arg Lys Thr Cys Ser Ala Gln Asp Gln Cys Ala Phe  
                   340                                  345                                  350  
 Gly Thr His Gly Cys Gln His Ile Cys Val Asn Asp Arg Asp Gly Ser  
                   355                                  360                                  365  
 His His Cys Glu Cys Tyr Glu Gly Tyr Thr Leu Asn Ala Asp Asn Lys  
                   370                                  375                                  380  
 Thr Cys Ser Val Arg Ser Glu Cys Ala Gly Gly Ser His Gly Cys Gln  
                   385                                  390                                  395                                  400  
 His Leu Cys Val Asp Asp Gly Pro Ala Ala Tyr His Cys Asp Cys Phe  
                   405                                  410                                  415  
 Pro Gly Tyr Thr Leu Thr Glu Asp Arg Arg Thr Cys Ala Ala Ile Glu  
                   420                                  425                                  430  
 Glu Ala Arg Arg Leu Val Ser Thr Glu Asp Ala Cys Gly Cys Glu Ala  
                   435                                  440                                  445  
 Thr Leu Ala Phe Gln Glu Arg Ala Ser Ser Tyr Leu Gln Arg Leu Asn  
                   450                                  455                                  460  
 Ala Lys Leu Asp Asp Ile Leu Gly Lys Leu Gln Ala Asp Ala Tyr Gly  
                   465                                  470                                  475                                  480  
 Gln Ile His Arg

&lt;210&gt; 707

&lt;211&gt; 368

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (310)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (365)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 707

Met Gln Pro Ser Ser Leu Leu Pro Leu Ala Leu Cys Leu Leu Ala Ala  
           1                                  5                                  10                                  15

Pro Ala Ser Ala Leu Val Arg Ile Pro Leu His Lys Phe Thr Ser Ile  
                   20                                  25                                  30

Arg Arg Thr Met Ser Glu Val Gly Gly Ser Val Glu Asp Leu Ile Ala  
                   35                                  40                                  45

Lys Gly Pro Val Ser Lys Tyr Ser Gln Ala Val Pro Ala Val Thr Glu  
           50                                  55                                  60

Gly Pro Ile Pro Glu Val Leu Lys Asn Tyr Met Asp Ala Gln Tyr Tyr  
 65 70 75 80  
 Gly Glu Ile Gly Ile Gly Thr Pro Pro Gln Cys Phe Thr Val Val Phe  
 85 90 95  
 Asp Thr Gly Ser Ser Asn Leu Trp Val Pro Ser Ile His Cys Lys Leu  
 100 105 110  
 Leu Asp Ile Ala Cys Trp Ile His His Lys Tyr Asn Ser Asp Lys Ser  
 115 120 125  
 Ser Thr Tyr Val Lys Asn Gly Thr Ser Phe Asp Ile His Tyr Gly Ser  
 130 135 140  
 Gly Ser Leu Ser Gly Tyr Leu Ser Gln Asp Thr Val Ser Val Pro Cys  
 145 150 155 160  
 Gln Ser Ala Ser Ser Ala Ser Ala Leu Gly Gly Val Lys Val Glu Arg  
 165 170 175  
 Gln Val Phe Gly Glu Ala Thr Lys Gln Pro Gly Ile Thr Phe Ile Ala  
 180 185 190  
 Ala Lys Phe Asp Gly Ile Leu Gly Met Ala Tyr Pro Arg Ile Ser Val  
 195 200 205  
 Asn Asn Val Leu Pro Val Phe Asp Asn Leu Met Gln Gln Lys Leu Val  
 210 215 220  
 Asp Gln Asn Ile Phe Ser Phe Tyr Leu Ser Arg Asp Pro Asp Ala Gln  
 225 230 235 240  
 Pro Gly Gly Glu Leu Met Leu Gly Gly Thr Asp Ser Lys Tyr Tyr Lys  
 245 250 255  
 Gly Ser Leu Ser Tyr Leu Asn Val Thr Arg Lys Ala Tyr Trp Gln Val  
 260 265 270  
 His Leu Asp Gln Val Glu Val Ala Ser Gly Leu Thr Leu Cys Lys Glu  
 275 280 285  
 Gly Cys Glu Ala Ile Val Asp Thr Gly Thr Ser Leu Met Val Gly Pro  
 290 295 300  
 Val Asp Glu Val Arg Xaa Leu Gln Lys Ala Ile Gly Ala Val Pro Leu  
 305 310 315 320  
 Ile Gln Gly Glu Tyr Met Ile Pro Cys Glu Lys Val Ser Thr Leu Pro  
 325 330 335  
 Ala Ile Thr Leu Lys Leu Gly Gly Lys Gly Tyr Lys Leu Ser Pro Glu  
 340 345 350  
 Asp Tyr Thr Leu Lys Val Ser Gln Ala Gly Lys Thr Xaa Cys Leu Ser  
 355 360 365

<210> 708  
 <211> 92  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (43)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (69)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (70)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 708  
 Leu Val Val Leu Gly Val Cys Ala Ala Gln His Glu Leu Thr Pro Arg  
   1                  5                  10                  15  
 Leu Arg Ala Gly Val Pro Val Gln Val Glu Arg Glu Asp Val Leu Leu  
                   20                  25                  30  
 His Gln Leu Leu Leu His Gln Val Ile Lys Xaa Gly Lys His Ile Val  
           35                  40                  45  
 Asp Arg Asp Ala Gly Val Gly His Ala Gln Asp Ala Val Glu Leu Gly  
       50                  55                  60  
 Arg Asp Glu Gly Xaa Xaa Arg Leu Leu Gly Gly Phe Pro Glu Arg Leu  
   65                  70                  75                  80  
 Pro Leu His Leu Asp Ala Ser Gln Ala Arg Gln Thr  
                   85                  90

<210> 709  
 <211> 115  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (50)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (70)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE

&lt;222&gt; (86)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (100)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 709

Met Gln Pro Pro Ser Leu Leu Leu Leu Val Leu Gly Leu Leu Ala Ala  
 1 5 10 15

Pro Ala Ala Ala Leu Val Arg Ile Pro Leu His Lys Phe Thr Ser Val  
 20 25 30

Arg Arg Thr Met Ser Glu Leu Gly Gly Pro Val Glu Asp Leu Ile Ala  
 35 40 45

Arg Xaa Pro Ile Ser Lys Tyr Ala Gln Gly Val Pro Ser Val Ala Gly  
 50 55 60

Gly Pro Val Pro Glu Xaa Leu Lys Glu Thr Thr Trp Asn Ala Gln Ile  
 65 70 75 80

Leu Arg Gly Lys Phe Xaa His Pro Gly Thr Pro Pro Arg Lys Leu Leu  
 85 90 95

Pro Pro Val Xaa Pro Phe Glu Lys Arg Gly Ser Phe Pro Thr Leu Leu  
 100 105 110

Gly Ser Pro  
 115

&lt;210&gt; 710

&lt;211&gt; 410

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 710

Met Gln Pro Pro Ser Leu Leu Leu Leu Val Leu Gly Leu Leu Ala Ala  
 1 5 10 15

Pro Ala Ala Ala Leu Val Arg Ile Pro Leu His Lys Phe Thr Ser Val  
 20 25 30

Arg Arg Thr Met Ser Glu Leu Gly Gly Pro Val Glu Asp Leu Ile Ala  
 35 40 45

Arg Gly Pro Ile Ser Lys Tyr Ala Gln Gly Val Pro Ser Val Ala Gly  
 50 55 60

Gly Pro Val Pro Glu Val Leu Arg Asn Tyr Met Asp Ala Gln Tyr Tyr  
 65 70 75 80

Gly Glu Ile Gly Ile Gly Thr Pro Pro Gln Cys Phe Thr Val Val Phe  
 85 90 95

Asp Thr Gly Ser Ser Asn Leu Trp Val Pro Ser Ile His Cys Lys Leu

100					105					110					
Leu	Asp	Ile	Ala	Cys	Trp	Ile	His	His	Lys	Tyr	Asn	Ser	Gly	Lys	Ser
		115					120					125			
Ser	Thr	Tyr	Val	Lys	Asn	Gly	Thr	Ser	Phe	Asp	Ile	His	Tyr	Gly	Ser
	130					135					140				
Gly	Ser	Leu	Ser	Gly	Tyr	Leu	Ser	Gln	Asp	Thr	Val	Ser	Val	Pro	Cys
145					150					155					160
Lys	Ser	Gly	Leu	Ser	Ser	Leu	Ala	Gly	Val	Lys	Val	Glu	Arg	Gln	Thr
				165					170					175	
Phe	Gly	Glu	Ala	Thr	Lys	Gln	Pro	Gly	Ile	Thr	Phe	Ile	Ala	Ala	Lys
			180					185					190		
Phe	Asp	Gly	Ile	Leu	Gly	Met	Ala	Tyr	Pro	Arg	Ile	Ser	Val	Asn	Asn
	195						200					205			
Val	Leu	Pro	Val	Phe	Asp	Asn	Leu	Met	Gln	Gln	Lys	Leu	Val	Glu	Lys
	210					215					220				
Asn	Ile	Phe	Ser	Phe	Tyr	Leu	Asn	Arg	Asp	Pro	Gly	Ala	Gln	Pro	Gly
225					230					235					240
Gly	Glu	Leu	Met	Leu	Gly	Gly	Thr	Asp	Ser	Lys	Tyr	Tyr	Lys	Gly	Pro
				245					250					255	
Leu	Ser	Tyr	Leu	Asn	Val	Thr	Arg	Lys	Ala	Tyr	Trp	Gln	Val	His	Met
			260					265					270		
Glu	Gln	Val	Asp	Val	Gly	Ser	Ser	Leu	Thr	Leu	Cys	Lys	Gly	Gly	Cys
		275					280					285			
Glu	Ala	Ile	Val	Asp	Thr	Gly	Thr	Ser	Leu	Ile	Val	Gly	Pro	Val	Asp
	290					295					300				
Glu	Val	Arg	Glu	Leu	Gln	Lys	Ala	Ile	Gly	Ala	Val	Pro	Leu	Ile	Gln
305					310					315					320
Gly	Glu	Tyr	Met	Ile	Pro	Cys	Glu	Lys	Val	Ser	Thr	Leu	Pro	Glu	Val
				325					330					335	
Thr	Leu	Thr	Leu	Gly	Gly	Lys	Pro	Tyr	Lys	Leu	Ser	Ser	Glu	Asp	Tyr
			340					345					350		
Thr	Leu	Lys	Val	Ser	Gln	Gly	Gly	Lys	Ser	Ile	Cys	Leu	Ser	Gly	Phe
		355					360					365			
Met	Gly	Met	Asp	Ile	Pro	Pro	Pro	Gly	Gly	Pro	Leu	Trp	Ile	Leu	Gly
	370					375					380				
Asp	Val	Phe	Ile	Gly	Arg	Tyr	Tyr	Thr	Val	Phe	Asp	Arg	Asp	Gln	Asn
385					390					395					400
Arg	Val	Gly	Leu	Ala	Glu	Ala	Thr	Arg	Leu						
				405					410						

<210> 711  
 <211> 96  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (25)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (77)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (79)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 711  
 Ala Ala Arg Glu Gly Ala Pro Pro Pro Cys Pro Thr Ser Ala Ile Gly  
           1                  5                  10                  15  
 Arg Ala Ser Leu Ser Leu Arg Asp Xaa Gly Arg Gly Leu Arg Asp Ala  
                   20                  25                  30  
 Arg Arg Glu Lys Arg Arg Gly Val Arg Gly Gln Asp Gly Gly Asp Tyr  
           35                  40                  45  
 Gly Trp Cys Gly Pro Ala Arg Gly Arg Gly Val Ala Ala Lys Gly Thr  
           50                  55                  60  
 Ala Glu Gly Pro Thr Gly Glu Asn Arg Ala Gln Gly Xaa Lys Xaa Gly  
           65                  70                  75                  80  
 Val Arg Val Ala Val Glu Ala Ser Ser Val Arg Gly Pro Gly Arg Ala  
                   85                  90                  95

<210> 712  
 <211> 453  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (432)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 712  
 Met Arg Met Ala Ser Ile Met Val Trp Val Met Ile Ile Met Val Ile  
           1                  5                  10                  15  
 Leu Val Leu Gly Tyr Gly Ile Phe His Cys Tyr Met Glu Tyr Ser Arg

20					25					30					
Leu	Arg	Gly	Glu	Ala	Gly	Ser	Asp	Val	Ser	Leu	Val	Asp	Leu	Gly	Phe
		35					40					45			
Gln	Thr	Asp	Phe	Arg	Val	Tyr	Leu	His	Leu	Arg	Gln	Thr	Trp	Leu	Ala
	50					55					60				
Phe	Met	Ile	Ile	Leu	Ser	Ile	Leu	Glu	Val	Ile	Ile	Ile	Leu	Leu	Leu
65					70					75					80
Ile	Phe	Leu	Arg	Lys	Arg	Ile	Leu	Ile	Ala	Ile	Ala	Leu	Ile	Lys	Glu
				85					90					95	
Ala	Ser	Arg	Ala	Val	Gly	Tyr	Val	Met	Cys	Ser	Leu	Leu	Tyr	Pro	Leu
			100					105					110		
Val	Thr	Phe	Phe	Leu	Leu	Cys	Leu	Cys	Ile	Ala	Tyr	Trp	Ala	Ser	Thr
		115					120					125			
Ala	Val	Phe	Leu	Ser	Thr	Ser	Asn	Glu	Ala	Val	Tyr	Lys	Ile	Phe	Asp
	130						135				140				
Asp	Ser	Pro	Cys	Pro	Phe	Thr	Ala	Lys	Thr	Cys	Asn	Pro	Glu	Thr	Phe
145					150					155					160
Pro	Ser	Ser	Asn	Glu	Ser	Arg	Gln	Cys	Pro	Asn	Ala	Arg	Cys	Gln	Phe
				165					170					175	
Ala	Phe	Tyr	Gly	Gly	Glu	Ser	Gly	Tyr	His	Arg	Ala	Leu	Leu	Gly	Leu
			180					185					190		
Gln	Ile	Phe	Asn	Ala	Phe	Met	Phe	Phe	Trp	Leu	Ala	Asn	Phe	Val	Leu
		195					200					205			
Ala	Leu	Gly	Gln	Val	Thr	Leu	Ala	Gly	Ala	Phe	Ala	Ser	Tyr	Tyr	Trp
	210					215					220				
Ala	Leu	Arg	Lys	Pro	Asp	Asp	Leu	Pro	Ala	Phe	Pro	Leu	Phe	Ser	Ala
225					230					235					240
Phe	Gly	Arg	Ala	Leu	Arg	Tyr	His	Thr	Gly	Ser	Leu	Ala	Phe	Gly	Ala
				245					250					255	
Leu	Ile	Leu	Ala	Ile	Val	Gln	Ile	Ile	Arg	Val	Ile	Leu	Glu	Tyr	Leu
			260					265					270		
Asp	Gln	Arg	Leu	Lys	Ala	Ala	Glu	Asn	Lys	Phe	Ala	Lys	Cys	Leu	Met
		275					280					285			
Thr	Cys	Leu	Lys	Cys	Cys	Phe	Trp	Cys	Leu	Glu	Lys	Phe	Ile	Lys	Phe
	290					295					300				
Leu	Asn	Arg	Asn	Ala	Tyr	Ile	Met	Ile	Ala	Ile	Tyr	Gly	Thr	Asn	Phe
305					310					315					320
Cys	Thr	Ser	Ala	Arg	Asn	Ala	Phe	Phe	Leu	Leu	Met	Arg	Asn	Ile	Ile
				325					330					335	
Arg	Val	Ala	Val	Leu	Asp	Lys	Val	Thr	Asp	Phe	Leu	Phe	Leu	Leu	Gly



[illegible]

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<210> 713
<211> 453
<212> PRT
<213> Homo sapiens
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<400> 713
Met Arg Met Ala Ser Ile Met Val Trp Val Met Ile Ile Met Val Ile
  1             5             10
Leu Val Leu Gly Tyr Gly Ile Phe His Cys Tyr Met Glu Tyr Ser Arg
      20             25             30
Leu Arg Gly Glu Ala Gly Ser Asp Val Ser Leu Val Asp Leu Gly Phe
      35             40             45
Gln Thr Asp Phe Arg Val Tyr Leu His Leu Arg Gln Thr Trp Leu Ala
      50             55             60
Phe Met Ile Ile Leu Ser Ile Leu Glu Val Ile Ile Ile Leu Leu Leu
  65             70             75             80
Ile Phe Leu Arg Lys Arg Ile Leu Ile Ala Ile Ala Leu Ile Lys Glu
      85             90             95
Ala Ser Arg Ala Val Gly Tyr Val Met Cys Ser Leu Leu Tyr Pro Leu
      100             105             110
Val Thr Phe Phe Leu Leu Cys Leu Cys Ile Ala Tyr Trp Ala Ser Thr
      115             120             125
Ala Val Phe Leu Ser Thr Ser Asn Glu Ala Val Tyr Lys Ile Phe Asp
      130             135             140
Asp Ser Pro Cys Pro Phe Thr Ala Lys Thr Cys Asn Pro Glu Thr Phe
  145             150             155             160

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Pro Ser Ser Asn Glu Ser Arg Gln Cys Pro Asn Ala Arg Cys Gln Phe  
 165 170 175  
 Ala Phe Tyr Gly Gly Glu Ser Gly Tyr His Arg Ala Leu Leu Gly Leu  
 180 185 190  
 Gln Ile Phe Asn Ala Phe Met Phe Phe Trp Leu Ala Asn Phe Val Leu  
 195 200 205  
 Ala Leu Gly Gln Val Thr Leu Ala Gly Ala Phe Ala Ser Tyr Tyr Trp  
 210 215 220  
 Ala Leu Arg Lys Pro Asp Asp Leu Pro Ala Phe Pro Leu Phe Ser Ala  
 225 230 235 240  
 Phe Gly Arg Ala Leu Arg Tyr His Thr Gly Ser Leu Ala Phe Gly Ala  
 245 250 255  
 Leu Ile Leu Ala Ile Val Gln Ile Ile Arg Val Ile Leu Glu Tyr Leu  
 260 265 270  
 Asp Gln Arg Leu Lys Ala Ala Glu Asn Lys Phe Ala Lys Cys Leu Met  
 275 280 285  
 Thr Cys Leu Lys Cys Cys Phe Trp Cys Leu Glu Lys Phe Ile Lys Phe  
 290 295 300  
 Leu Asn Arg Asn Ala Tyr Ile Met Ile Ala Ile Tyr Gly Thr Asn Phe  
 305 310 315 320  
 Cys Thr Ser Ala Arg Asn Ala Phe Phe Leu Leu Met Arg Asn Ile Ile  
 325 330 335  
 Arg Val Ala Val Leu Asp Lys Val Thr Asp Phe Leu Phe Leu Leu Gly  
 340 345 350  
 Lys Leu Leu Ile Val Gly Ser Val Gly Ile Leu Ala Phe Phe Phe Phe  
 355 360 365  
 Thr His Arg Ile Arg Ile Val Gln Asp Thr Ala Pro Pro Leu Asn Tyr  
 370 375 380  
 Tyr Trp Val Pro Ile Leu Thr Val Ile Val Gly Ser Tyr Leu Ile Ala  
 385 390 395 400  
 His Gly Phe Phe Ser Val Tyr Gly Met Cys Val Asp Thr Leu Phe Leu  
 405 410 415  
 Cys Phe Leu Glu Asp Leu Glu Arg Asn Asp Gly Ser Ala Glu Arg Pro  
 420 425 430  
 Tyr Phe Met Ser Ser Thr Leu Lys Lys Leu Leu Asn Lys Thr Asn Lys  
 435 440 445  
 Lys Ala Ala Glu Ser  
 450

<210> 714  
 <211> 84  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (56)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 714  
 Gly Arg Pro Thr Arg Pro Leu Ser Ala Gln Asn Ala Ser Val Asn Phe  
           1                          5                          10                          15  
 Trp Glu Ala Ser Thr Leu Ala Ala Gln Arg Glu Leu Ala Met Gln Phe  
                           20                          25                          30  
 Leu Cys Pro Gly Asn His Cys Phe Pro Cys His Leu Leu Cys Ala Gln  
                           35                          40                          45  
 Lys Arg Tyr Asn Ser His Gln Xaa Thr Pro Val Val Thr Ala His Leu  
           50                          55                          60  
 Val Cys Cys Val Phe Gln Gln Ser Val Leu Leu Gly Val Gln Leu Asn  
           65                          70                          75                          80  
 Arg Leu Gly Val

<210> 715  
 <211> 32  
 <212> PRT  
 <213> Homo sapiens

<400> 715  
 Met Trp Trp Ala Leu Leu Ala Cys Arg Phe Cys Cys Pro Arg Arg Cys  
           1                          5                          10                          15  
 Ala Ser Ala Trp Gln Gly Leu Pro Arg Arg Gly Ala Leu Phe Ser Gly  
                           20                          25                          30

<210> 716  
 <211> 53  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (26)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 716  
 Met Trp Trp Ala Leu Leu Ala Leu Pro Phe Leu Leu Pro Thr Ala Leu

1	5	10	15
Arg Leu Cys	Leu Ala Gly Leu Pro His Xaa Phe Arg His Thr Asn Arg		
	20	25	30
Met Val Pro Gln Trp His Gln Ser Gly Asp Arg Pro Leu His Ser His			
	35	40	45
Pro His Ser Arg Phe			
	50		

&lt;210&gt; 717

&lt;211&gt; 744

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 717

Met Trp Trp	Ala Leu Leu Ala Leu Pro Phe Leu Leu Pro Thr Ala Leu
1	5 10 15
Arg Leu Cys	Leu Ala Gly Pro Pro Pro Glu Arg Gly Pro Leu Phe Trp
	20 25 30
Leu Thr Arg Gln Asp Ser Arg Glu Ser Gly Ala Ala Asn Ala Thr Val	
	35 40 45
Ser Pro Cys Glu Gly Leu Pro Ser Ala Gly Ala Ser Thr Leu Thr Leu	
	50 55 60
Ala Asn Arg Ser Leu Glu Arg Leu Pro Asn Cys Leu Pro Pro Ala Leu	
	65 70 75 80
Arg Ser Leu Asp Ala Ser His Asn Leu Leu Arg Ala Leu Ser Ala Pro	
	85 90 95
Glu Leu Gly Ala Leu Pro Arg Leu Gln Ala Leu Thr Leu Arg His Asn	
	100 105 110
Arg Ile Ala Glu Leu Arg Trp Gly Pro Gly Gly Pro Ala Ala Leu His	
	115 120 125
Thr Leu Asp Leu Ser Tyr Asn Gln Leu Ala Thr Leu Pro Pro Cys Ala	
	130 135 140
Gly Pro Ala Leu Pro Gly Leu Arg Ser Leu Ala Leu Ala Gly Asn Pro	
	145 150 155 160
Leu Gln Ala Leu Gln Pro Gly Ala Phe Ala Cys Leu Pro Ala Leu Arg	
	165 170 175
Leu Leu Asn Leu Ser Gly Thr Ala Leu Gly Arg Asp Leu Gly Ala Gly	
	180 185 190
Ile Ala Asp Gly Ala Phe Ala Gly Ala Gly Gly Ala Leu Glu Val Leu	
	195 200 205
Asp Leu Ser Gly Thr Phe Leu Glu Arg Val Arg Ser Gly Trp Ile Arg	
	210 215 220

Asp Leu Pro Lys Leu Thr Ser Leu His Leu Arg Lys Met Pro Arg Leu  
 225 230 235 240  
 Arg Ile Leu Glu Ala Ala Val Phe Lys Met Thr Pro Asn Leu Gln Gln  
 245 250 255  
 Leu Asp Cys Gln Asp Ser Ser Ala Leu Thr Ser Val His Thr Gln Leu  
 260 265 270  
 Phe Gln Asp Thr Pro Arg Leu Gln Val Leu Leu Phe Gln Asn Cys Asn  
 275 280 285  
 Leu Ser Ser Phe Pro Pro Trp Ser Leu His Ser Ser Gln Val Leu Ser  
 290 295 300  
 Ile Ser Leu Phe Gly Asn Pro Leu Ile Cys Ser Cys Glu Leu Ser Trp  
 305 310 315 320  
 Leu Leu Arg Asp Ala Lys Arg Thr Val Leu Ser Arg Ala Ala Asp Thr  
 325 330 335  
 Val Cys Val Pro Ala Ser Gly Ser Arg Asp Thr Phe Ser Ala Pro Leu  
 340 345 350  
 Ser Leu Ser Gln Leu Pro Thr Val Cys His Leu Asp Gln Ser Thr Thr  
 355 360 365  
 Leu His Ser Ser Ser Pro Gln Ala Val Pro Phe Thr His Gln Pro Ser  
 370 375 380  
 Thr Gln Gly Leu Thr Thr Pro Trp Ser Thr Ala Pro Ser Thr Arg Pro  
 385 390 395 400  
 Val Glu Ala Glu Gln Ser Val Thr Lys Pro Leu Ser Phe Pro Thr Asp  
 405 410 415  
 Ser Ala Thr Gln Thr Ala Trp Ser His Ser Gly Ile Lys Val Gly Thr  
 420 425 430  
 Ala Arg Ser Thr Ala Ile Pro Thr Ala Asp Ser Ser Thr Ser Ser Ala  
 435 440 445  
 Pro Arg Arg Ala Ala Asn Thr Ala Gly Ala Glu His Gln Glu His Ala  
 450 455 460  
 Pro Met Leu Val His Ala Pro His Val Ser Ala Ala Ser Thr Pro Ser  
 465 470 475 480  
 Ala Ser Lys His Pro Gly Leu Phe Pro Thr Pro Trp Ser Gln Val Arg  
 485 490 495  
 Thr Pro Gln Pro Asp Tyr Arg Ala Gln Ala Thr Leu Gln Ala Pro His  
 500 505 510  
 Pro Ser Pro Ser Glu Gly Ala Ile Pro Val Leu Leu Leu Asp Glu Ser  
 515 520 525  
 Ser Glu Glu Glu Glu Glu Gly Gln Lys Glu Glu Val Gly Ala Pro Pro  
 530 535 540

Gln Asp Val Pro Cys Asp Tyr His Pro Cys Lys His Leu Gln Thr Pro  
 545 550 555 560  
 Cys Ala Glu Leu Gln Arg Arg Ser Arg Cys Arg Cys Pro Gly Leu Ser  
 565 570 575  
 Gly Glu Asp Ser Leu Pro Asp Pro Pro Arg Leu Gln Ala Val Thr Glu  
 580 585 590  
 Thr Thr Asp Thr Ser Ala Leu Val Arg Trp Cys Ala Pro Asn Ser Val  
 595 600 605  
 Val His Gly Tyr Gln Ile His Tyr Ser Pro Glu Gly Trp Ala Glu Asn  
 610 615 620  
 Gln Ser Val Thr Val Val Ala Asp Ile Tyr Ala Thr Ala Arg Gln His  
 625 630 635 640  
 Pro Leu Tyr Gly Leu Ser Pro Gly Thr Met Tyr Arg Val Cys Val Leu  
 645 650 655  
 Ala Ala Asn Arg Ala Gly Leu Ser Gln Pro Val Gln Ala Ser Gly Trp  
 660 665 670  
 Thr Arg Ala Cys Ala Ala Phe Thr Thr Lys Pro Ser Phe Val Leu Val  
 675 680 685  
 Phe Ala Gly Leu Cys Ala Ala Cys Gly Leu Leu Leu Val Thr Thr Leu  
 690 695 700  
 Leu Leu Ala Ala Cys Leu Cys Arg Arg Ser Arg Thr Val Arg Leu Gln  
 705 710 715 720  
 Arg Tyr Asn Thr His Leu Val Ala Tyr Lys Asn Pro Ala Phe Asp Tyr  
 725 730 735  
 Pro Leu Lys Leu Gln Thr Leu Ser  
 740

&lt;210&gt; 718

&lt;211&gt; 153

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 718

Ala Ile His Phe Thr Gln Gln Asp Met Pro Gln Ile Arg Arg Gln Ile  
 1 5 10 15

Tyr Lys Glu Leu Cys His Ala Asn Ser Leu Cys Glu Arg Arg Ile Pro  
 20 25 30

Gly Leu Lys Pro Met Val Lys Gly Met Gly Thr Trp Gly Thr Leu Pro  
 35 40 45

Ser Arg Glu Thr Pro Val Pro Leu Leu Pro Leu Pro Leu Pro Val Pro  
 50 55 60

Tyr Gly Phe Ser Tyr Leu Asn Val Leu Ile Asp Phe Cys Ile Phe Phe  
 65 70 75 80  
 Ser Leu Arg Glu Tyr Leu Leu Ile Phe Asp Val Gln Gly Val Ala Met  
 85 90 95  
 Glu Gln Pro Leu Leu Pro Leu Leu Gly Arg Ser Leu Ala Leu Trp Pro  
 100 105 110  
 Gly Trp Gly Gly His Pro Pro Ser Arg Val Gln Gly Arg Gly Gln Glu  
 115 120 125  
 His Leu Cys Trp Gly Gly Gly Arg Ala Lys Gly Val Cys Leu Pro Asp  
 130 135 140  
 Ile Gln Thr Leu Phe Tyr Thr Tyr Ile  
 145 150

<210> 719  
 <211> 46  
 <212> PRT  
 <213> Homo sapiens

<400> 719  
 Met Arg Met Lys Met Arg Lys Arg Lys Trp Gln Leu Gly Gly Cys Pro  
 1 5 10 15  
 Pro Asp Gly Val Ser Trp Glu Leu Pro Ser Gly Leu Val Leu Pro Ala  
 20 25 30  
 Leu Leu Ile Glu Lys Pro Ala Pro Ser Ala Ala Ala Glu Pro  
 35 40 45

<210> 720  
 <211> 99  
 <212> PRT  
 <213> Homo sapiens

<400> 720  
 Gly Val Ser Trp Glu Gly Thr Pro Met Ser Pro Phe Pro Phe Met Gly  
 1 5 10 15  
 Leu Gly Ser Gly Val Arg Gly Ser His Ser Glu Phe Ala Val Thr Gln  
 20 25 30  
 Leu Leu Val Asp Leu Pro Thr Lys Phe Gly His Val Leu Leu Gly Glu  
 35 40 45  
 Ala Glu Trp Leu Arg Gln Gly Gln Met Leu Ala Val Leu Gln His Lys  
 50 55 60  
 Ser Thr Thr Val Thr Val Ile Ile Leu Pro Gly His Ile His Phe Glu  
 65 70 75 80  
 Val Thr Phe Pro Ala Leu Val Glu Ile Gln Ser Val Phe Leu Tyr Arg  
 85 90 95

Leu Cys Leu

<210> 721

<211> 90

<212> PRT

<213> Homo sapiens

<400> 721

Met Asp Tyr Gly Gly Leu Gln Ser Leu Leu Trp Thr Leu Thr Leu Ala  
1 5 10 15

Ser Ser Pro Val Leu Phe Pro Met Ala Leu Gly Asp Pro Pro Gly Gln  
20 25 30

Lys Gly Ser Gly Val Trp His Pro Leu Met Pro Ala Ser Ser Ser Ala  
35 40 45

Met Cys Ala Ala Ser Gly Thr Met Trp Pro Arg Ser Tyr Phe Arg Ala  
50 55 60

Gln Ile Trp Ala Pro Gln Lys Arg Gln Ser Gly Pro Gly Arg Lys Pro  
65 70 75 80

Ala Ser Thr Ala Pro Cys Gly Arg Ser Met  
85 90

<210> 722

<211> 288

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (268)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (271)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (273)



<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (274)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (276)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (286)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 722

Phe Ser Ser Ser Ala Cys Pro Ser Val Xaa Ser Leu Phe Val Xaa Leu  
1 5 10 15

Gly Lys Asn Pro His Asp Ala Gln Gly His Pro Arg Ala Ser Glu Asp  
20 25 30

Gln Pro Ser Ser Gly Lys Pro Val Thr Ser Tyr Pro Gly Glu Cys Gly  
35 40 45

Phe Val Phe Thr Lys Glu Ala Ser Leu Glu Ile Arg Asp Met Leu Leu  
50 55 60

Ala Asn Lys Val Pro Ala Ala Arg Ala Gly Ala Ile Ala Pro Cys  
65 70 75 80

Glu Val Thr Val Pro Ala Gln Asn Thr Gly Leu Gly Pro Glu Lys Thr  
85 90 95

Ser Phe Phe Gln Ala Leu Gly Ile Thr Thr Lys Ile Ser Arg Gly Thr  
100 105 110

Ile Glu Ile Leu Ser Asp Val Gln Leu Ile Lys Thr Gly Asp Lys Val  
115 120 125

Gly Ala Ser Glu Ala Thr Leu Leu Asn Met Leu Asn Ile Ser Pro Phe  
130 135 140

Ser Phe Gly Leu Ile Ile Gln Gln Val Phe Asp Asn Gly Ser Ile Tyr  
145 150 155 160

Asn Pro Glu Val Leu Asp Ile Thr Glu Glu Thr Leu His Ser Arg Phe  
165 170 175

Leu Glu Gly Val Arg Asn Val Ala Ser Val Cys Leu Gln Ile Gly Tyr  
180 185 190

Pro Thr Val Ala Ser Val Pro His Ser Ile Ile Asn Gly Tyr Lys Arg  
195 200 205

Val Leu Ala Leu Ser Val Glu Thr Asp Tyr Thr Phe Pro Leu Ala Glu  
210 215 220

Lys Val Lys Ala Phe Leu Ala Asp Pro Ser Ala Phe Val Ala Ala Ala  
 225 230 235 240  
 Pro Val Ala Ala Ala Thr Thr Ala Ala Pro Ala Ala Ala Ala Ala Pro  
 245 250 255  
 Ala Lys Val Glu Ala Lys Glu Glu Ser Glu Glu Xaa Asp Glu Xaa Ile  
 260 265 270  
 Xaa Xaa Ser Xaa Ile Ser Lys Ser Asn Asn Ser Ser Gln Xaa Ile Val  
 275 280 285

<210> 723  
 <211> 112  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (71)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (103)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (112)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 723  
 Met Lys Thr Leu Leu Leu Leu Val Gly Leu Leu Leu Thr Trp Glu Asn  
 1 5 10 15  
 Gly Arg Val Leu Gly Asp Gln Met Val Ser Asp Thr Glu Leu Gln Glu  
 20 25 30  
 Met Ser Thr Glu Gly Ser Lys Tyr Ile Asn Arg Glu Ile Lys Asn Ala  
 35 40 45  
 Leu Lys Gly Val Lys Gln Ile Lys Thr Leu Ile Glu Gln Thr Asn Glu  
 50 55 60  
 Glu Arg Lys Ser Leu Leu Xaa Asn Leu Glu Glu Ala Lys Lys Lys Lys  
 65 70 75 80  
 Glu Asp Ala Leu Asn Asp Thr Lys Asp Ser Glu Met Lys Leu Lys Ala  
 85 90 95  
 Ser Pro Gly Val Phe Asn Xaa Thr Leu Asp Gly Pro Leu Gly Gly Xaa  
 100 105 110

<210> 724  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<400> 724  
 Leu Leu Leu Val Gly Leu Gln Gln Leu Val Val Gln Ala Trp  
           1                  5                  10

<210> 725  
 <211> 7  
 <212> PRT  
 <213> Homo sapiens

<400> 725  
 Leu Leu Val Val Leu Leu Ser  
           1                  5

<210> 726  
 <211> 139  
 <212> PRT  
 <213> Homo sapiens

<400> 726  
 Met Lys Thr Leu Leu Leu Val Gly Leu Leu Leu Thr Trp Glu Asn  
           1                  5                  10                  15

Gly Arg Val Leu Gly Asp Gln Met Val Ser Asp Thr Glu Leu Gln Glu  
                   20                  25                  30

Met Ser Thr Glu Gly Ser Lys Tyr Ile Asn Arg Glu Ile Lys Asn Ala  
           35                  40                  45

Leu Lys Gly Val Lys Gln Ile Lys Thr Leu Ile Glu Gln Thr Asn Glu  
           50                  55                  60

Glu Arg Lys Ser Leu Leu Thr Asn Leu Glu Glu Ala Lys Lys Lys Lys  
           65                  70                  75                  80

Glu Asp Ala Leu Asn Asp Thr Lys Asp Ser Glu Met Lys Leu Lys Ala  
                   85                  90                  95

Ser Gln Gly Val Cys Asn Asp Thr Met Met Ala Leu Trp Glu Glu Cys  
           100                  105                  110

Lys Pro Cys Leu Lys Gln Thr Trp Gly Lys Gly Leu Arg Pro Ser Leu  
           115                  120                  125

Gln Lys Gln His Arg Ala Gly Trp Pro Pro Gly  
           130                  135

<210> 727  
 <211> 112  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (103)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (112)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 727  
 Met Lys Thr Leu Leu Leu Leu Val Gly Leu Leu Leu Thr Trp Glu Asn  
           1                  5                  10                  15  
 Gly Arg Val Leu Gly Asp Gln Met Val Ser Asp Thr Glu Leu Gln Glu  
                   20                  25                  30  
 Met Ser Thr Glu Gly Ser Lys Tyr Ile Asn Arg Glu Ile Lys Asn Ala  
           35                  40                  45  
 Leu Lys Gly Val Lys Gln Ile Lys Thr Leu Ile Glu Gln Thr Asn Glu  
           50                  55                  60  
 Glu Arg Lys Ser Leu Leu Thr Asn Leu Glu Glu Ala Lys Lys Lys Lys  
           65                  70                  75                  80  
 Glu Asp Ala Leu Asn Asp Thr Lys Asp Ser Glu Met Lys Leu Lys Ala  
                   85                  90                  95  
 Ser Pro Gly Val Phe Asn Xaa Thr Leu Asp Gly Pro Leu Gly Gly Xaa  
           100                  105                  110

<210> 728  
 <211> 6  
 <212> PRT  
 <213> Homo sapiens

<400> 728  
 Met Leu Leu Leu Tyr Leu  
           1                  5

<210> 729  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<400> 729

Pro Gln Gly Pro Asn Asp Val Thr Ala Lys Leu Leu Cys Pro  
 1 5 10

<210> 730

<211> 67

<212> PRT

<213> Homo sapiens

<400> 730

Met Ala Pro Ser Gly Pro Leu Leu Leu Val Leu Leu Val Pro Leu Ala  
 1 5 10 15

Ala Ala Arg Pro Gly Pro Thr Ser Val Pro Ala Gly Ala Ala Ala Cys  
 20 25 30

Pro Cys Gly Gly Thr Ser Cys Arg Gly Trp Gly Ala Gly Pro Thr Pro  
 35 40 45

Gly Arg Thr Ser Thr Cys Pro His Leu Thr Cys Pro Arg Ala Gly Thr  
 50 55 60

Gly Ala Thr  
 65

<210> 731

<211> 129

<212> PRT

<213> Homo sapiens

<400> 731

Met Ala Pro Ser Gly Pro Leu Leu Leu Val Leu Leu Val Pro Leu Ala  
 1 5 10 15

Ala Ala Arg Ala Gly Pro Tyr Phe Arg Pro Gly Arg Gly Cys Arg Leu  
 20 25 30

Pro Leu Arg Gly Asp Gln Leu Ser Gly Leu Gly Arg Arg Thr Tyr Pro  
 35 40 45

Arg Pro His Glu Tyr Leu Ser Pro Ser Asp Leu Pro Lys Ser Trp Asp  
 50 55 60

Trp Arg Asn Val Asn Gly Val Asn Tyr Ala Ser Ala Thr Arg Asn Gln  
 65 70 75 80

His Ile Pro Gln Tyr Cys Gly Ser Cys Trp Ala His Gly Ser Thr Ser  
 85 90 95

Ala Met Ala Gly Pro Asp Gln His Gln Glu Lys Gly Gly Val Ala Leu  
 100 105 110

His Pro Ala Val Arg Ala Ala Arg Pro Arg Leu Arg Gln Arg Gly Leu  
 115 120 125

Leu

&lt;210&gt; 732

&lt;211&gt; 208

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 732

Met Gly Leu Gly Ala Arg Gly Ala Trp Ala Ala Leu Leu Leu Gly Thr  
 1 5 10 15

Leu Gln Val Leu Ala Leu Leu Gly Ala Ala His Glu Ser Ala Ala Met  
 20 25 30

Ala Ala Ser Ala Asn Ile Glu Asn Ser Gly Leu Pro His Asn Ser Ser  
 35 40 45

Ala Asn Ser Thr Glu Thr Leu Gln His Val Pro Ser Asp His Thr Asn  
 50 55 60

Glu Thr Ser Asn Ser Thr Val Lys Pro Pro Thr Ser Val Ala Ser Asp  
 65 70 75 80

Ser Ser Asn Thr Thr Val Thr Thr Met Lys Pro Thr Ala Ala Ser Asn  
 85 90 95

Thr Thr Thr Pro Gly Met Val Ser Thr Asn Met Thr Ser Thr Thr Leu  
 100 105 110

Lys Ser Thr Pro Lys Thr Thr Ser Val Ser Gln Asn Thr Ser Gln Ile  
 115 120 125

Ser Thr Ser Thr Met Thr Val Thr His Asn Ser Ser Val Thr Ser Ala  
 130 135 140

Ala Ser Ser Val Thr Ile Thr Thr Thr Met His Ser Glu Ala Lys Lys  
 145 150 155 160

Gly Ser Lys Phe Asp Thr Gly Ser Phe Val Gly Gly Ile Val Leu Thr  
 165 170 175

Leu Gly Val Leu Ser Ile Leu Tyr Ile Gly Cys Lys Met Tyr Tyr Ser  
 180 185 190

Arg Arg Gly Ile Arg Tyr Arg Thr Ile Asp Glu His Asp Ala Ile Ile  
 195 200 205

&lt;210&gt; 733

&lt;211&gt; 208

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 733

Met Gly Leu Gly Ala Arg Gly Ala Trp Ala Ala Leu Leu Leu Gly Thr

1	5	10	15
Leu Gln Val	Leu Ala Leu Leu Gly	Ala Ala His Glu Ser	Ala Ala Met
	20	25	30
Ala Ala Ser	Ala Asn Ile Glu Asn Ser	Gly Leu Pro His Asn Ser	Ser
	35	40	45
Ala Asn Ser	Thr Glu Thr Leu Gln His Val	Pro Ser Asp His Thr Asn	
	50	55	60
Glu Thr Ser	Asn Ser Thr Val Lys Pro Pro	Thr Ser Val Ala Ser Asp	
	65	70	75
Ser Ser Asn	Thr Thr Val Thr Thr Met Lys	Pro Thr Ala Ala Ser Asn	
	85	90	95
Thr Thr Thr	Pro Gly Met Val Ser Thr Asn Met	Thr Ser Thr Thr Leu	
	100	105	110
Lys Ser Thr	Pro Lys Thr Thr Ser Val Ser	Gln Asn Thr Ser Gln Ile	
	115	120	125
Ser Thr Ser	Thr Met Thr Val Thr His Asn Ser	Ser Val Thr Ser Ala	
	130	135	140
Ala Ser Ser	Val Thr Ile Thr Thr Thr Met His	Ser Glu Ala Lys Lys	
	145	150	155
Gly Ser Lys	Phe Asp Thr Gly Ser Phe Val Gly	Gly Ile Val Leu Thr	
	165	170	175
Leu Gly Val	Leu Ser Ile Leu Tyr Ile Gly Cys	Lys Met Tyr Tyr Ser	
	180	185	190
Arg Arg Gly	Ile Arg Tyr Arg Thr Ile Asp Glu His	Asp Ala Ile Ile	
	195	200	205

&lt;210&gt; 734

&lt;211&gt; 208

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 734

Met Gly Leu	Gly Ala Arg Gly Ala Trp	Ala Ala Leu Leu Leu Gly Thr
1	5	10
Leu Gln Val	Leu Ala Leu Leu Gly Ala Ala His	Glu Ser Ala Ala Met
	20	25
Ala Ala Ser	Ala Asn Ile Glu Asn Ser	Gly Leu Pro His Asn Ser
	35	40
Ala Asn Ser	Thr Glu Thr Leu Gln His Val	Pro Ser Asp His Thr Asn
	50	55

Glu Thr Ser Asn Ser Thr Val Lys Pro Pro Thr Ser Val Ala Ser Asp  
 65 70 75 80  
 Ser Ser Asn Thr Thr Val Thr Thr Met Lys Pro Thr Ala Ala Ser Asn  
 85 90 95  
 Thr Thr Thr Pro Gly Met Val Ser Thr Asn Met Thr Ser Thr Thr Leu  
 100 105 110  
 Lys Ser Thr Pro Lys Thr Thr Ser Val Ser Gln Asn Thr Ser Gln Ile  
 115 120 125  
 Ser Thr Ser Thr Met Thr Val Thr His Asn Ser Ser Val Thr Ser Ala  
 130 135 140  
 Ala Ser Ser Val Thr Ile Thr Thr Thr Met His Ser Glu Ala Lys Lys  
 145 150 155 160  
 Gly Ser Lys Phe Asp Thr Gly Ser Phe Val Gly Gly Ile Val Leu Thr  
 165 170 175  
 Leu Gly Val Leu Ser Ile Leu Tyr Ile Gly Cys Lys Met Tyr Tyr Ser  
 180 185 190  
 Arg Arg Gly Ile Arg Tyr Arg Thr Ile Asp Glu His Asp Ala Ile Ile  
 195 200 205

&lt;210&gt; 735

&lt;211&gt; 208

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 735

Met Gly Leu Gly Ala Arg Gly Ala Trp Ala Ala Leu Leu Leu Gly Thr  
 1 5 10 15  
 Leu Gln Val Leu Ala Leu Leu Gly Ala Ala His Glu Ser Ala Ala Met  
 20 25 30  
 Ala Ala Ser Ala Asn Ile Glu Asn Ser Gly Leu Pro His Asn Ser Ser  
 35 40 45  
 Ala Asn Ser Thr Glu Thr Leu Gln His Val Pro Ser Asp His Thr Asn  
 50 55 60  
 Glu Thr Ser Asn Ser Thr Val Lys Pro Pro Thr Ser Val Ala Ser Asp  
 65 70 75 80  
 Ser Ser Asn Thr Thr Val Thr Thr Met Lys Pro Thr Ala Ala Ser Asn  
 85 90 95  
 Thr Thr Thr Pro Gly Met Val Ser Thr Asn Met Thr Ser Thr Thr Leu  
 100 105 110



Lys Ser Thr Pro Lys Thr Thr Ser Val Ser Gln Asn Thr Ser Gln Ile  
 115 120 125  
 Ser Thr Ser Thr Met Thr Val Thr His Asn Ser Ser Val Thr Ser Ala  
 130 135 140  
 Ala Ser Ser Val Thr Ile Thr Thr Thr Met His Ser Glu Ala Lys Lys  
 145 150 155 160  
 Gly Ser Lys Phe Asp Thr Gly Ser Phe Val Gly Gly Ile Val Leu Thr  
 165 170 175  
 Leu Gly Val Leu Ser Ile Leu Tyr Ile Gly Cys Lys Met Tyr Tyr Ser  
 180 185 190  
 Arg Arg Gly Ile Arg Tyr Arg Thr Ile Asp Glu His Asp Ala Ile Ile  
 195 200 205

<210> 736  
 <211> 365  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (144)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (201)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 736  
 Met Phe Val Gly Leu Met Ala Phe Leu Leu Ser Phe Tyr Leu Ile Phe  
 1 5 10 15  
 Thr Asn Glu Gly Arg Ala Leu Lys Thr Ala Thr Ser Leu Ala Glu Gly  
 20 25 30  
 Leu Ser Leu Val Val Ser Pro Asp Ser Ile His Ser Val Ala Pro Glu  
 35 40 45  
 Asn Glu Gly Arg Leu Val His Ile Ile Gly Ala Leu Arg Thr Ser Lys  
 50 55 60  
 Leu Leu Ser Asp Pro Asn Tyr Gly Val His Leu Pro Ala Val Lys Leu  
 65 70 75 80  
 Arg Arg His Val Glu Met Tyr Gln Trp Val Glu Thr Glu Glu Ser Arg  
 85 90 95  
 Glu Tyr Thr Glu Asp Gly Gln Val Lys Lys Glu Thr Arg Tyr Ser Tyr  
 100 105 110

Asn Thr Glu Trp Arg Ser Glu Ile Ile Asn Ser Lys Asn Phe Asp Arg  
 115 120 125  
 Glu Ile Gly His Lys Asn Pro Ser Ala Met Ala Val Glu Ser Phe Xaa  
 130 135 140  
 Ala Thr Ala Pro Phe Val Gln Ile Gly Arg Phe Phe Leu Ser Ser Gly  
 145 150 155 160  
 Leu Ile Asp Lys Val Asp Asn Phe Lys Ser Leu Ser Leu Ser Lys Leu  
 165 170 175  
 Glu Asp Pro His Val Asp Ile Ile Arg Arg Gly Asp Phe Phe Tyr His  
 180 185 190  
 Ser Glu Asn Pro Lys Tyr Pro Glu Xaa Gly Asp Leu Arg Val Ser Phe  
 195 200 205  
 Ser Tyr Ala Gly Leu Ser Gly Asp Asp Pro Asp Leu Gly Pro Ala His  
 210 215 220  
 Val Val Thr Val Ile Ala Arg Gln Arg Gly Asp Gln Leu Val Pro Phe  
 225 230 235 240  
 Ser Thr Lys Ser Gly Asp Thr Leu Leu Leu Leu His His Gly Asp Phe  
 245 250 255  
 Ser Ala Glu Glu Val Phe His Arg Glu Leu Arg Ser Asn Ser Met Lys  
 260 265 270  
 Thr Trp Gly Leu Arg Ala Ala Gly Trp Met Ala Met Phe Met Gly Leu  
 275 280 285  
 Asn Leu Met Thr Arg Ile Leu Tyr Thr Leu Val Asp Trp Phe Pro Val  
 290 295 300  
 Phe Arg Asp Leu Val Asn Ile Gly Leu Lys Ala Phe Ala Phe Cys Val  
 305 310 315 320  
 Ala Thr Ser Leu Thr Leu Leu Thr Val Ala Ala Gly Trp Leu Phe Tyr  
 325 330 335  
 Arg Pro Leu Trp Ala Leu Leu Ile Ala Gly Leu Ala Leu Val Pro Ile  
 340 345 350  
 Leu Val Ala Arg Thr Arg Val Pro Ala Lys Lys Leu Glu  
 355 360 365

&lt;210&gt; 737

&lt;211&gt; 365

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 737

Met Phe Val Gly Leu Met Ala Phe Leu Leu Ser Phe Tyr Leu Ile Phe  
 1 5 10 15

Thr Asn Glu Gly Arg Ala Leu Lys Thr Ala Thr Ser Leu Ala Glu Gly

397

340 345 350  
Leu Val Ala Arg Thr Arg Val Pro Ala Lys Lys Leu Glu  
355 360 365

<210> 738  
<211> 34  
<212> PRT  
<213> Homo sapiens

<400> 738  
Met Leu Trp Pro Cys Cys Pro Ser Pro Leu Pro Ile Trp Ala Ser Pro  
1 5 10 15  
Ser Pro Arg Leu Thr Trp Trp Cys Leu Leu Ser Cys Phe Gly Thr Gln  
20 25 30

Gly Cys

<210> 739  
<211> 34  
<212> PRT  
<213> Homo sapiens

<400> 739  
Met Leu Trp Pro Cys Cys Pro Ser Pro Leu Pro Ile Trp Ala Ser Pro  
1 5 10 15  
Ser Pro Arg Leu Thr Trp Trp Cys Leu Leu Ser Cys Phe Gly Thr Gln  
20 25 30

Gly Cys

<210> 740  
<211> 41  
<212> PRT  
<213> Homo sapiens

<400> 740  
Met Arg His Cys Cys Trp Leu Trp Ser Ser Cys Met Leu Trp Glu Pro  
1 5 10 15  
Ser Thr Thr Leu Gly Ser Ser Pro Arg Leu Val Glu Arg Trp Gln Ser  
20 25 30

Cys Arg Trp Thr Pro Cys Cys Pro Lys  
35 40

<210> 741  
<211> 41

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 741

Met Arg His Cys Cys Trp Leu Trp Ser Ser Cys Met Leu Trp Glu Pro  
 1 5 10 15

Ser Thr Thr Leu Gly Ser Ser Pro Arg Leu Val Glu Arg Trp Gln Ser  
 20 25 30

Cys Arg Trp Thr Pro Cys Cys Pro Lys  
 35 40

&lt;210&gt; 742

&lt;211&gt; 18

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 742

Val His Lys Ser Ala Gly Leu Leu Trp Glu Ala Thr Gly Glu Gly Pro  
 1 5 10 15

Gly Ser

&lt;210&gt; 743

&lt;211&gt; 197

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 743

Val Glu Ile Val His Glu Leu Lys Gly Glu Gly Lys Ala Gln Arg Lys  
 1 5 10 15

Ile Ser Ala Ile His Ile Leu Asp Val Leu Val Leu Asn Gly Thr Asp  
 20 25 30

Val Arg Glu Gln His Phe Asn Gln Arg Ile Gln Leu Ala Glu Lys Phe  
 35 40 45

Val Lys Ala Val Ser Lys Pro Ser Arg Pro Asp Met Asn Pro Ile Arg  
 50 55 60

Val Lys Glu Val Tyr Arg Leu Glu Glu Met Glu Lys Ile Phe Val Arg  
 65 70 75 80

Leu Glu Met Lys Ile Ile Lys Gly Ser Ser Gly Thr Pro Lys Leu Ser  
 85 90 95

Tyr Thr Gly Arg Asp Asp Arg His Phe Val Pro Met Gly Leu Tyr Ile  
 100 105 110

Val Arg Thr Val Asn Glu Pro Trp Thr Met Gly Phe Ser Lys Ser Phe  
 115 120 125

Lys Lys Lys Phe Phe Tyr Asn Lys Lys Thr Lys Asp Ser Thr Phe Asp

130                      135                      140  
 Leu Pro Ala Asp Ser Ile Ala Pro Phe His Ile Cys Tyr Tyr Gly Arg  
 145                      150                      155                      160  
 Leu Phe Trp Glu Trp Gly Asp Gly Ile Arg Val His Asp Ser Gln Lys  
                          165                      170                      175  
 Pro Gln Asp Gln Asp Lys Leu Ser Lys Glu Asp Val Leu Ser Phe Ile  
                          180                      185                      190  
 Gln Met His Arg Ala  
                          195

<210> 744  
 <211> 1  
 <212> PRT  
 <213> Homo sapiens

<400> 744  
 Asn  
 1

<210> 745  
 <211> 61  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (58)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 745  
 Met His Ser Lys Gln Thr Leu Leu Trp Lys Glu Leu Leu Leu Ala Ile  
   1                          5                          10                          15  
 Pro Cys Ile Ile Ala Ser Pro Arg Ser Leu Trp Pro Arg Trp Ala Ser  
                           20                          25                          30  
 Gly Lys Val Lys Asp Trp Val Asn Thr Ala Arg Val Gly Arg Thr Ser  
                           35                          40                          45  
 Leu Arg Leu Pro Val Arg Lys Val Glu Xaa Ala Trp Val  
   50                          55                          60

<210> 746  
 <211> 61  
 <212> PRT  
 <213> Homo sapiens

<400> 746  
 Met His Ser Lys Gln Thr Leu Leu Trp Lys Glu Leu Leu Leu Ala Ile  
   1                          5                          10                          15

Pro Cys Ile Ile Ala Ser Pro Arg Ser Leu Trp Pro Arg Trp Ala Ser  
                   20                  25                  30

Gly Lys Val Lys Asp Trp Val Asn Thr Ala Arg Val Gly Arg Thr Ser  
           35                  40                  45

Leu Arg Leu Pro Val Arg Lys Val Glu Glu Ala Trp Val  
       50                  55                  60

<210> 747

<211> 53

<212> PRT

<213> Homo sapiens

<400> 747

Asn Tyr Asn Arg Gly Gly Thr Phe Leu Tyr Gln Lys Ala Lys Ile Lys  
       1                  5                  10                  15

His His Val Leu Met Val Phe Tyr Lys Ser Thr Ser Asn Ser Thr Glu  
           20                  25                  30

Ser Leu Ile Trp Ser Leu Leu Asn Ser Trp Ser Asp Lys Val Thr Phe  
       35                  40                  45

Pro Lys Arg Val Arg  
       50

<210> 748

<211> 56

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 748

Lys Ser Gln Met Gln Ser Phe Thr Ile Val Thr Ala Tyr Gly Arg Cys  
       1                  5                  10                  15

Leu Ser Leu Thr Cys Leu Pro Thr Leu Asn Gln Met Leu Val Phe Lys  
           20                  25                  30

Ser Asn Xaa Ser Leu Val Ser Pro His Xaa Leu Thr Phe Xaa Asn Ile

35

40

45

Phe Ala Arg Phe Glu Asn Phe Gln  
 50 55

&lt;210&gt; 749

&lt;211&gt; 11

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 749

Phe Leu Val Cys Leu Leu Leu Gly Pro Arg Ser  
 1 5 10

&lt;210&gt; 750

&lt;211&gt; 6

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 750

Thr Val Ala Ile Tyr Asp  
 1 5

&lt;210&gt; 751

&lt;211&gt; 46

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (45)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 751

Ile Asn His Val Phe Ile Trp Gly Ser Ile Ala Ile Tyr Phe Ser Ile  
 1 5 10 15

Leu Phe Thr Met His Ser Asn Gly Ile Phe Gly Ile Phe Pro Asn Gln  
 20 25 30

Phe Pro Phe Val Gly Asn Ala Arg His Ser Leu Thr Xaa Lys  
 35 40 45

&lt;210&gt; 752

&lt;211&gt; 109

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (94)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids



&lt;400&gt; 752

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Met Asn Thr Leu Val Leu Trp Ile Phe Gly Phe Leu Ile Cys Leu Gly
 1              5              10              15

Ile Ile Leu Ala Ile Gly Asn Ser Ile Trp Glu Ser Gln Thr Gly Asp
              20              25              30

Gln Phe Arg Thr Phe Leu Phe Trp Asn Glu Gly Glu Lys Ser Ser Val
              35              40              45

Phe Ser Gly Phe Leu Thr Phe Trp Ser Tyr Ile Ile Ile Leu Asn Thr
              50              55              60

Val Val Pro Ile Ser Leu Tyr Val Ser Val Glu Val Ile Arg Leu Gly
              65              70              75              80

His Ser Tyr Phe Ile Asn Trp Asp Arg Lys Met Tyr Tyr Xaa Arg Lys
              85              90              95

Ala Ile Pro Ala Val Ala Arg Thr Thr Thr Leu Asn Glu
              100              105

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&lt;210&gt; 753

&lt;211&gt; 937

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 753

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Met Gln Asn Ser Gly Lys Thr Lys Phe Lys Arg Thr Ser Ile Asp Arg
 1              5              10              15

Leu Met Asn Thr Leu Val Leu Trp Ile Phe Gly Phe Leu Ile Cys Leu
              20              25              30

Gly Ile Ile Leu Ala Ile Gly Asn Ser Ile Trp Glu Ser Gln Thr Gly
              35              40              45

Asp Gln Phe Arg Thr Phe Leu Phe Trp Asn Glu Gly Glu Lys Ser Ser
              50              55              60

Val Phe Ser Gly Phe Leu Thr Phe Trp Ser Tyr Ile Ile Ile Leu Asn
              65              70              75              80

Thr Val Val Pro Ile Ser Leu Tyr Val Ser Val Glu Val Ile Arg Leu
              85              90              95

Gly His Ser Tyr Phe Ile Asn Trp Asp Arg Lys Met Tyr Tyr Ser Arg
              100              105              110

Lys Ala Ile Pro Ala Val Ala Arg Thr Thr Thr Leu Asn Glu Glu Leu
              115              120              125

Gly Gln Ile Glu Tyr Ile Phe Ser Asp Lys Thr Gly Thr Leu Thr Gln
              130              135              140

Asn Ile Met Thr Phe Lys Arg Cys Ser Ile Asn Gly Arg Ile Tyr Gly
              145              150              155              160

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Glu Val His Asp Asp Leu Asp Gln Lys Thr Glu Ile Thr Gln Glu Lys  
 165 170 175  
 Glu Pro Val Asp Phe Ser Val Lys Ser Gln Ala Asp Arg Glu Phe Gln  
 180 185 190  
 Phe Phe Asp His Asn Leu Met Glu Ser Ile Lys Met Gly Asp Pro Lys  
 195 200 205  
 Val His Glu Phe Leu Arg Leu Leu Ala Leu Cys His Thr Val Met Ser  
 210 215 220  
 Glu Glu Asn Ser Ala Gly Glu Leu Ile Tyr Gln Val Gln Ser Pro Asp  
 225 230 235 240  
 Glu Gly Ala Leu Val Thr Ala Ala Arg Asn Phe Gly Phe Ile Phe Lys  
 245 250 255  
 Ser Arg Thr Pro Glu Thr Ile Thr Ile Glu Glu Leu Gly Thr Leu Val  
 260 265 270  
 Thr Tyr Gln Leu Leu Ala Phe Leu Asp Phe Asn Asn Thr Arg Lys Arg  
 275 280 285  
 Met Ser Val Ile Val Arg Asn Pro Glu Gly Gln Ile Lys Leu Tyr Ser  
 290 295 300  
 Lys Gly Ala Asp Thr Ile Leu Phe Glu Lys Leu His Pro Ser Asn Glu  
 305 310 315 320  
 Val Leu Leu Ser Leu Thr Ser Asp His Leu Ser Glu Phe Ala Gly Glu  
 325 330 335  
 Gly Leu Arg Thr Leu Ala Ile Ala Tyr Arg Asp Leu Asp Asp Lys Tyr  
 340 345 350  
 Phe Lys Glu Trp His Lys Met Leu Glu Asp Ala Asn Val Ala Thr Glu  
 355 360 365  
 Glu Arg Asp Glu Arg Ile Ala Gly Leu Tyr Glu Glu Ile Glu Arg Asp  
 370 375 380  
 Leu Met Leu Leu Gly Ala Thr Ala Val Glu Asp Lys Leu Gln Glu Gly  
 385 390 395 400  
 Val Ile Glu Thr Val Thr Ser Leu Ser Leu Ala Asn Ile Lys Ile Trp  
 405 410 415  
 Val Leu Thr Gly Asp Lys Gln Glu Thr Ala Ile Asn Ile Gly Tyr Ala  
 420 425 430  
 Cys Asn Met Leu Thr Asp Asp Met Asn Asp Val Phe Val Ile Ala Gly  
 435 440 445  
 Asn Asn Ala Val Glu Val Arg Glu Glu Leu Arg Lys Ala Lys Gln Asn  
 450 455 460  
 Leu Phe Gly Gln Asn Arg Asn Phe Ser Asn Gly His Val Val Cys Glu  
 465 470 475 480

Lys Lys Gln Gln Leu Glu Leu Asp Ser Ile Val Glu Glu Thr Ile Thr  
 485 490 495  
 Gly Asp Tyr Ala Leu Ile Ile Asn Gly His Ser Leu Ala His Ala Leu  
 500 505 510  
 Glu Ser Asp Val Lys Asn Asp Leu Leu Glu Leu Ala Cys Met Cys Lys  
 515 520 525  
 Thr Val Ile Cys Cys Arg Val Thr Pro Leu Gln Lys Ala Gln Val Val  
 530 535 540  
 Glu Leu Val Lys Lys Tyr Arg Asn Ala Val Thr Leu Ala Ile Gly Asp  
 545 550 555 560  
 Gly Ala Asn Asp Val Ser Met Ile Lys Ser Ala His Ile Gly Val Gly  
 565 570 575  
 Ile Ser Gly Gln Glu Gly Leu Gln Ala Val Leu Ala Ser Asp Tyr Ser  
 580 585 590  
 Phe Ala Gln Phe Arg Tyr Leu Gln Arg Leu Leu Leu Val His Gly Arg  
 595 600 605  
 Trp Ser Tyr Phe Arg Met Cys Lys Phe Leu Cys Tyr Phe Phe Tyr Lys  
 610 615 620  
 Asn Phe Ala Phe Thr Leu Val His Phe Trp Phe Gly Phe Phe Cys Gly  
 625 630 635 640  
 Phe Ser Ala Gln Thr Val Tyr Asp Gln Trp Phe Ile Thr Leu Phe Asn  
 645 650 655  
 Ile Val Tyr Thr Ser Leu Pro Val Leu Ala Met Gly Ile Phe Asp Gln  
 660 665 670  
 Asp Val Ser Asp Gln Asn Ser Val Asp Cys Pro Gln Leu Tyr Lys Pro  
 675 680 685  
 Gly Gln Leu Asn Leu Leu Phe Asn Lys Arg Lys Phe Phe Ile Cys Val  
 690 695 700  
 Met His Gly Ile Tyr Thr Ser Leu Val Leu Phe Phe Ile Pro Tyr Gly  
 705 710 715 720  
 Ala Phe Tyr Asn Val Ala Gly Glu Asp Gly Gln His Ile Ala Asp Tyr  
 725 730 735  
 Gln Ser Phe Ala Val Thr Met Ala Thr Ser Leu Val Ile Val Val Ser  
 740 745 750  
 Val Gln Ile Ala Leu Asp Thr Ser Tyr Trp Thr Phe Ile Asn His Val  
 755 760 765  
 Phe Ile Trp Gly Ser Ile Ala Ile Tyr Phe Ser Ile Leu Phe Thr Met  
 770 775 780  
 His Ser Asn Gly Ile Phe Gly Ile Phe Pro Asn Gln Phe Pro Phe Val  
 785 790 795 800

Gly Asn Ala Arg His Ser Leu Thr Gln Lys Cys Ile Trp Leu Val Ile  
805 810 815

Leu Leu Thr Thr Val Ala Ser Val Met Pro Val Val Ala Phe Arg Phe  
820 825 830

Leu Lys Val Asp Leu Tyr Pro Thr Leu Ser Asp Gln Ile Arg Arg Trp  
835 840 845

Gln Lys Ala Gln Lys Lys Ala Arg Pro Pro Ser Ser Arg Arg Pro Arg  
850 855 860

Thr Arg Arg Ser Ser Ser Arg Arg Ser Gly Tyr Ala Phe Ala His Gln  
865 870 875 880

Glu Gly Tyr Gly Glu Leu Ile Thr Ser Gly Lys Asn Met Arg Ala Lys  
885 890 895

Asn Pro Pro Pro Thr Ser Gly Leu Glu Lys Thr His Tyr Asn Ser Thr  
900 905 910

Ser Trp Ile Glu Asn Leu Cys Lys Lys Thr Thr Asp Thr Val Ser Ser  
915 920 925

Phe Ser Gln Asp Lys Thr Val Lys Leu  
930 935

<210> 754

<211> 45

<212> PRT

<213> Homo sapiens

<400> 754

Ile Asn Ser Cys Asn Ile Lys Gly Leu Lys Cys Phe Tyr Ile Val Phe  
1 5 10 15

Gly Cys Leu Leu Leu Val Pro Ile Ser Asp Lys Leu Tyr Gly Leu Leu  
20 25 30

His Leu Ile Pro Phe Ile Trp Arg Val Leu Leu Pro Cys  
35 40 45

<210> 755

<211> 137

<212> PRT

<213> Homo sapiens

<400> 755

Met Lys Leu Leu Val Ile Leu Leu Phe Ser Gly Leu Ile Thr Gly Phe  
1 5 10 15

Arg Ser Asp Ser Ser Ser Ser Leu Pro Pro Lys Leu Leu Leu Val Ser  
20 25 30

Phe Asp Gly Phe Arg Ala Asp Tyr Leu Lys Asn Tyr Glu Phe Pro His

35                      40                      45  
 Leu Gln Asn Phe Ile Lys Glu Gly Val Leu Val Glu His Val Lys Asn  
     50                      55                      60  
 Val Phe Ile Thr Lys Thr Phe Pro Asn His Tyr Ser Ile Val Thr Gly  
     65                      70                      75                      80  
 Leu Tyr Glu Glu Ser His Gly Ile Val Ala Asn Ser Met Tyr Asp Ala  
                                  85                      90                      95  
 Val Thr Lys Lys His Phe Ser Asp Ser Asn Asp Lys Asp Pro Phe Trp  
                                  100                      105                      110  
 Trp Asn Glu Ala Val Pro Ile Trp Val Thr Asn Gln Leu Gln Glu Thr  
     115                      120                      125  
 Asp Gln Val Ala Ala Ala Met Trp Ala  
     130                      135

<210> 756  
 <211> 6  
 <212> PRT  
 <213> Homo sapiens

<400> 756  
 Lys Met Met Met Ile Leu  
     1                      5

<210> 757  
 <211> 101  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (97)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 757  
 Ser Phe Ser Phe Lys Val Val Asp Val Phe Glu Val Ser Lys Ile Val  
     1                      5                      10                      15  
 Ala Glu Tyr Phe Ile Leu Gly Pro Cys Asn Gly Val Ser Phe Asn Asp  
                                  20                      25                      30  
 Cys Ile Ile Val Ile Gly Gly Tyr Glu Phe Gln Lys Ser Ile Leu Gly  
     35                      40                      45  
 Ile Gln Leu Met Ser Gly Phe Tyr Ile Gly Trp Asn Arg Lys Val Cys  
     50                      55                      60  
 Pro Val Ser Ile Leu Thr Leu Ser Thr Arg His Leu Pro Ile Cys Leu  
     65                      70                      75                      80  
 Ser Leu Arg Ser Gln Asn Ile Asn Ser Asn Cys Lys Leu Ser Lys Asn

85

90

95

Xaa Lys Ser Ile Cys  
100

&lt;210&gt; 758

&lt;211&gt; 12

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 758

Leu Leu Thr Ile Leu Leu Trp Ser Ala Leu Ser Tyr  
1 5 10

&lt;210&gt; 759

&lt;211&gt; 453

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 759

Met Lys Leu Leu Val Ile Leu Leu Phe Ser Gly Leu Ile Thr Gly Phe  
1 5 10 15

Arg Ser Asp Ser Ser Ser Ser Leu Pro Pro Lys Leu Leu Leu Val Ser  
20 25 30

Phe Asp Gly Phe Arg Ala Asp Tyr Leu Lys Asn Tyr Glu Phe Pro His  
35 40 45

Leu Gln Asn Phe Ile Lys Glu Gly Val Leu Val Glu His Val Lys Asn  
50 55 60

Val Phe Ile Thr Lys Thr Phe Pro Asn His Tyr Ser Ile Val Thr Gly  
65 70 75 80

Leu Tyr Glu Glu Ser His Gly Ile Val Ala Asn Ser Met Tyr Asp Ala  
85 90 95

Val Thr Lys Lys His Phe Ser Asp Ser Asn Asp Lys Asp Pro Phe Trp  
100 105 110

Trp Asn Glu Ala Val Pro Ile Trp Val Thr Asn Gln Leu Gln Glu Asn  
115 120 125

Arg Ser Ser Ala Ala Ala Met Trp Pro Gly Thr Asp Val Pro Ile His  
130 135 140

Asp Thr Ile Ser Ser Tyr Phe Met Asn Tyr Asn Ser Ser Val Ser Phe  
145 150 155 160

Glu Glu Arg Leu Asn Asn Ile Thr Met Trp Leu Asn Asn Ser Asn Pro  
165 170 175

Pro Val Thr Phe Ala Thr Leu Tyr Trp Glu Glu Pro Asp Ala Ser Gly  
180 185 190

His Lys Tyr Gly Pro Glu Asp Lys Glu Asn Met Ser Arg Val Leu Lys  
 195 200 205  
 Lys Ile Asp Asp Leu Ile Gly Asp Leu Val Gln Arg Leu Lys Met Leu  
 210 215 220  
 Gly Leu Trp Glu Asn Leu Asn Val Ile Ile Thr Ser Asp His Gly Met  
 225 230 235 240  
 Thr Gln Cys Ser Gln Asp Arg Leu Ile Asn Leu Asp Ser Cys Ile Asp  
 245 250 255  
 His Ser Tyr Tyr Thr Leu Ile Asp Leu Ser Pro Val Ala Ala Ile Leu  
 260 265 270  
 Pro Lys Ile Asn Arg Thr Glu Val Tyr Asn Lys Leu Lys Asn Cys Ser  
 275 280 285  
 Pro His Met Asn Val Tyr Leu Lys Glu Asp Ile Pro Asn Arg Phe Tyr  
 290 295 300  
 Tyr Gln His Asn Asp Arg Ile Gln Pro Ile Ile Leu Val Ala Asp Glu  
 305 310 315 320  
 Gly Trp Thr Ile Val Leu Asn Glu Ser Ser Gln Lys Leu Gly Asp His  
 325 330 335  
 Gly Tyr Asp Asn Ser Leu Pro Ser Met His Pro Phe Leu Ala Ala His  
 340 345 350  
 Gly Pro Ala Phe His Lys Gly Tyr Lys His Ser Thr Ile Asn Ile Val  
 355 360 365  
 Asp Ile Tyr Pro Met Met Cys His Ile Leu Gly Leu Lys Pro His Pro  
 370 375 380  
 Asn Asn Gly Thr Phe Gly His Thr Lys Cys Leu Leu Val Asp Gln Trp  
 385 390 395 400  
 Cys Ile Asn Leu Pro Glu Ala Ile Ala Ile Val Ile Gly Ser Leu Leu  
 405 410 415  
 Val Leu Thr Met Leu Thr Cys Leu Ile Ile Ile Met Gln Asn Arg Leu  
 420 425 430  
 Ser Val Pro Arg Pro Phe Ser Arg Leu Gln Leu Gln Glu Asp Asp Asp  
 435 440 445  
 Asp Pro Leu Ile Gly  
 450

&lt;210&gt; 760

&lt;211&gt; 11

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 760

Trp His Ile Leu Gln Met Lys Gly Leu Thr Trp

1

5

10

&lt;210&gt; 761

&lt;211&gt; 31

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 761

Phe Ala Ile Phe Ile Tyr Phe Ser Val Ser Tyr Ile Ala Asp Gly Asn  
 1 5 10 15

Glu Phe Glu Val Pro Arg Ala Glu Asp Pro Cys Leu Leu Cys Phe  
 20 25 30

&lt;210&gt; 762

&lt;211&gt; 245

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (110)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 762

Met Arg Ile Phe Ala Val Phe Ile Phe Met Thr Tyr Trp His Leu Leu  
 1 5 10 15

Asn Ala Phe Thr Val Thr Val Pro Lys Asp Leu Tyr Val Val Glu Tyr  
 20 25 30

Gly Ser Asn Met Thr Ile Glu Cys Lys Phe Pro Val Glu Lys Gln Leu  
 35 40 45

Asp Leu Ala Ala Leu Ile Val Tyr Trp Glu Met Glu Asp Lys Asn Ile  
 50 55 60

Ile Gln Phe Val His Gly Glu Glu Asp Leu Lys Val Gln His Ser Ser  
 65 70 75 80

Tyr Arg Gln Arg Ala Arg Leu Leu Lys Asp Gln Leu Ser Leu Gly Asn  
 85 90 95

Ala Ala Leu Gln Ile Thr Asp Val Lys Leu Gln Asp Ala Xaa Val Tyr  
 100 105 110

Arg Cys Met Ile Ser Tyr Gly Gly Ala Asp Tyr Lys Arg Ile Thr Val  
 115 120 125

Lys Val Asn Ala Pro Tyr Asn Lys Ile Asn Gln Arg Ile Leu Val Val  
 130 135 140

Asp Pro Val Thr Ser Glu His Glu Leu Thr Cys Gln Ala Glu Gly Tyr  
 145 150 155 160

Pro Lys Ala Glu Val Ile Trp Thr Ser Ser Asp His Gln Val Leu Ser



165                      170                      175  
 Gly Lys Thr Thr Thr Thr Asn Ser Lys Arg Glu Glu Lys Leu Phe Asn  
                          180                      185                      190  
 Val Thr Ser Thr Leu Arg Ile Asn Thr Thr Thr Asn Glu Ile Phe Tyr  
                          195                      200                      205  
 Cys Thr Phe Arg Arg Leu Asp Pro Glu Glu Asn His Thr Ala Glu Leu  
                          210                      215                      220  
 Val Ile Pro Gly Asn Ile Leu Asn Val Ser Ile Lys Ile Cys Leu Thr  
                          225                      230                      235                      240  
 Leu Ser Pro Ser Thr  
                          245

<210> 763  
 <211> 290  
 <212> PRT  
 <213> Homo sapiens

<400> 763  
 Met Arg Ile Phe Ala Val Phe Ile Phe Met Thr Tyr Trp His Leu Leu  
                          1                      5                      10                      15  
 Asn Ala Phe Thr Val Thr Val Pro Lys Asp Leu Tyr Val Val Glu Tyr  
                          20                      25                      30  
 Gly Ser Asn Met Thr Ile Glu Cys Lys Phe Pro Val Glu Lys Gln Leu  
                          35                      40                      45  
 Asp Leu Ala Ala Leu Ile Val Tyr Trp Glu Met Glu Asp Lys Asn Ile  
                          50                      55                      60  
 Ile Gln Phe Val His Gly Glu Glu Asp Leu Lys Val Gln His Ser Ser  
                          65                      70                      75                      80  
 Tyr Arg Gln Arg Ala Arg Leu Leu Lys Asp Gln Leu Ser Leu Gly Asn  
                          85                      90                      95  
 Ala Ala Leu Gln Ile Thr Asp Val Lys Leu Gln Asp Ala Gly Val Tyr  
                          100                      105                      110  
 Arg Cys Met Ile Ser Tyr Gly Gly Ala Asp Tyr Lys Arg Ile Thr Val  
                          115                      120                      125  
 Lys Val Asn Ala Pro Tyr Asn Lys Ile Asn Gln Arg Ile Leu Val Val  
                          130                      135                      140  
 Asp Pro Val Thr Ser Glu His Glu Leu Thr Cys Gln Ala Glu Gly Tyr  
                          145                      150                      155                      160  
 Pro Lys Ala Glu Val Ile Trp Thr Ser Ser Asp His Gln Val Leu Ser  
                          165                      170                      175  
 Gly Lys Thr Thr Thr Thr Asn Ser Lys Arg Glu Glu Lys Leu Phe Asn  
                          180                      185                      190

Val Thr Ser Thr Leu Arg Ile Asn Thr Thr Thr Asn Glu Ile Phe Tyr  
 195 200 205

Cys Thr Phe Arg Arg Leu Asp Pro Glu Glu Asn His Thr Ala Glu Leu  
 210 215 220

Val Ile Pro Glu Leu Pro Leu Ala His Pro Pro Asn Glu Arg Thr His  
 225 230 235 240

Leu Val Ile Leu Gly Ala Ile Leu Leu Cys Leu Gly Val Ala Leu Thr  
 245 250 255

Phe Ile Phe Arg Leu Arg Lys Gly Arg Met Met Asp Val Lys Lys Cys  
 260 265 270

Gly Ile Gln Asp Thr Asn Ser Lys Lys Gln Ser Asp Thr His Leu Glu  
 275 280 285

Glu Thr  
 290

&lt;210&gt; 764

&lt;211&gt; 91

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (40)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 764

Ser Val Ser Lys Lys Lys Lys Lys Lys Lys Val Phe Cys Ile Leu Tyr  
 1 5 10 15

Lys Leu Val Val Val Gly Ser Arg Gly Leu Ser Thr Asp Asp Leu Met  
 20 25 30

Arg Ser Val Ser Arg Phe Ala Xaa Ser Gln Thr Phe Val Leu Leu Asn  
 35 40 45

Ser Ser Ser Phe Phe Ser Phe Leu Glu Thr Glu Ser Ser Ser Val Thr  
 50 55 60

Arg Leu Glu Cys Ser Gly Thr Ile Lys Ala Tyr Cys Ser Leu Tyr Leu  
 65 70 75 80

Pro Gly Ser Arg Asn Pro Pro Thr Leu Ala Ser  
 85 90

&lt;210&gt; 765

&lt;211&gt; 53

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 765

Met Val Tyr Cys Val Val Ser Pro Arg Arg Ala Thr Leu Phe Cys Val  
 1 5 10 15  
 Leu Leu Leu Gly Thr Arg Cys Glu Ile Ile Ser Val Arg Ser Ser Phe  
 20 25 30  
 Gly Glu Tyr Asp Lys Ile Asn Ser Ile Leu Lys Gly Leu Leu Lys Ile  
 35 40 45  
 Pro Phe Asn Glu Phe  
 50

&lt;210&gt; 766

&lt;211&gt; 95

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 766

Pro Pro Arg Thr Arg Leu Phe Leu Val Ile Leu Phe Cys Cys Phe Arg  
 1 5 10 15  
 Arg Asn Asp Thr Ser Phe Cys Phe Phe Glu Glu Lys Val Phe His Val  
 20 25 30  
 Thr Val Ala Arg Thr Asn Thr Lys Arg Ser Arg Leu Gln Met Leu Gln  
 35 40 45  
 Ala Cys Ala Val Val Cys Val Cys Val Cys Val Cys Val Cys Val Cys  
 50 55 60  
 Thr Tyr Ile Tyr Gly Lys His Ile Tyr Cys Cys Ala Ala Arg Gly Lys  
 65 70 75 80  
 Pro Ala Lys Lys Cys Val Cys Leu Tyr Glu Met Phe Glu Lys Arg  
 85 90 95

&lt;210&gt; 767

&lt;211&gt; 53

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 767

Met Val Tyr Cys Val Val Ser Pro Arg Arg Ala Thr Leu Phe Cys Val  
 1 5 10 15  
 Leu Leu Leu Gly Thr Arg Cys Glu Ile Ile Ser Val Arg Ser Ser Phe  
 20 25 30  
 Gly Glu Tyr Asp Lys Ile Asn Ser Ile Leu Lys Gly Leu Leu Lys Ile  
 35 40 45  
 Pro Phe Asn Glu Phe  
 50

<210> 768  
 <211> 41  
 <212> PRT  
 <213> Homo sapiens

<400> 768  
 Met Pro Ser Gly Cys Arg Cys Leu His Leu Val Cys Leu Leu Cys Ile  
     1                    5                    10                    15  
 Leu Gly Ala Pro Gly Gln Pro Val Arg Ala Asp Asp Cys Ser Pro Thr  
                     20                    25                    30  
 Val Thr Trp Pro Thr Ala Ala Val Asn  
             35                    40

<210> 769  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 769  
 Pro Gly Leu Cys Ser Gln Leu His Val Pro Leu Leu Gly Gly Leu Cys  
     1                    5                    10                    15  
 Gly Cys Pro Leu  
                     20

<210> 770  
 <211> 383  
 <212> PRT  
 <213> Homo sapiens

<400> 770  
 Met Pro Ser Gly Cys Arg Cys Leu His Leu Val Cys Leu Leu Cys Ile  
     1                    5                    10                    15  
 Leu Gly Ala Pro Gly Gln Pro Val Arg Ala Asp Asp Cys Ser Ser His  
                     20                    25                    30  
 Cys Asp Leu Ala His Gly Cys Cys Ala Pro Asp Gly Ser Cys Arg Cys  
             35                    40                    45  
 Asp Pro Gly Trp Glu Gly Leu His Cys Glu Arg Cys Val Arg Met Pro  
             50                    55                    60  
 Gly Cys Gln His Gly Thr Cys His Gln Pro Trp Gln Cys Ile Cys His  
     65                    70                    75                    80  
 Ser Gly Trp Ala Gly Lys Phe Cys Asp Lys Asp Glu His Ile Cys Thr  
                     85                    90                    95  
 Thr Gln Ser Pro Cys Gln Asn Gly Gly Gln Cys Met Tyr Asp Gly Gly  
             100                    105                    110  
 Gly Glu Tyr His Cys Val Cys Leu Pro Gly Phe His Gly Arg Asp Cys

115	120	125
Glu Arg Lys Ala Gly Pro Cys 130	Glu Gln Ala Gly Ser Pro Cys Arg Asn 135	140
Gly Gly Gln Cys Gln Asp Asp 145	Gln Gly Phe Ala Leu Asn Phe Thr Cys 150	155 160
Arg Cys Leu Val Gly Phe Val Gly Ala Arg Cys Glu Val Asn Val Asp 165	170	175
Asp Cys Leu Met Arg Pro Cys Ala Asn Gly Ala Thr Cys Leu Asp Gly 180	185	190
Ile Asn Arg Phe Ser Cys Leu Cys Pro Glu Gly Phe Ala Gly Arg Phe 195	200	205
Cys Thr Ile Asn Leu Asp Asp Cys Ala Ser Arg Pro Cys Gln Arg Gly 210	215	220
Ala Arg Cys Arg Asp Arg Val His Asp Phe Asp Cys Leu Cys Pro Ser 225	230	235 240
Gly Tyr Gly Gly Lys Thr Cys Glu Leu Val Leu Pro Val Pro Asp Pro 245	250	255
Pro Thr Thr Val Asp Thr Pro Leu Gly Pro Thr Ser Ala Val Val Val 260	265	270
Pro Ala Thr Gly Pro Ala Pro His Ser Ala Gly Ala Gly Leu Leu Arg 275	280	285
Ile Ser Val Lys Glu Val Val Arg Arg Gln Glu Ala Gly Leu Gly Glu 290	295	300
Pro Ser Leu Val Ala Leu Val Val Phe Gly Ala Leu Thr Ala Ala Leu 305	310	315 320
Val Leu Ala Thr Val Leu Leu Thr Leu Arg Ala Trp Arg Arg Gly Val 325	330	335
Cys Pro Pro Gly Pro Cys Cys Tyr Pro Ala Pro His Tyr Ala Pro Ala 340	345	350
Cys Gln Asp Gln Glu Cys Gln Val Ser Met Leu Pro Ala Gly Leu Pro 355	360	365
Leu Pro Arg Asp Leu Pro Pro Glu Pro Gly Lys Thr Thr Ala Leu 370	375	380

&lt;210&gt; 771

&lt;211&gt; 10

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 771

Pro Gln Thr Ala Gly Pro Gln Lys Cys Ala

1

5

10

<210> 772  
 <211> 10  
 <212> PRT  
 <213> Homo sapiens

<400> 772  
 Pro Phe Pro Ala Gly Pro His Ser Trp Ile  
 1 5 10

<210> 773  
 <211> 35  
 <212> PRT  
 <213> Homo sapiens

<400> 773  
 Met Gly Arg Gly Pro Trp Asp Ala Gly Pro Ser Arg Arg Leu Leu Pro  
 1 5 10 15

Leu Leu Leu Leu Leu Gly Leu Ala Arg Gly Ala Ala Glu Arg Arg Ala  
 20 25 30

Pro Thr Val  
 35

<210> 774  
 <211> 747  
 <212> PRT  
 <213> Homo sapiens

<400> 774  
 Met Gly Arg Gly Pro Trp Asp Ala Gly Pro Ser Arg Arg Leu Leu Pro  
 1 5 10 15

Leu Leu Leu Leu Leu Gly Leu Ala Arg Gly Ala Ala Gly Ala Pro Gly  
 20 25 30

Pro Asp Gly Leu Asp Val Cys Ala Thr Cys His Glu His Ala Thr Cys  
 35 40 45

Gln Gln Arg Glu Gly Lys Lys Ile Cys Ile Cys Asn Tyr Gly Phe Val  
 50 55 60

Gly Asn Gly Arg Thr Gln Cys Val Asp Lys Asn Glu Cys Gln Phe Gly  
 65 70 75 80

Ala Thr Leu Val Cys Gly Asn His Thr Ser Cys His Asn Thr Pro Gly  
 85 90 95

Gly Phe Tyr Cys Ile Cys Leu Glu Gly Tyr Arg Ala Thr Asn Asn Asn  
 100 105 110

Lys Thr Phe Ile Pro Asn Asp Gly Thr Phe Cys Thr Asp Ile Asp Glu  
 115 120 125

Cys Glu Val Ser Gly Leu Cys Arg His Gly Gly Arg Cys Val Asn Thr  
 130 135 140  
 His Gly Ser Phe Glu Cys Tyr Cys Met Asp Gly Tyr Leu Pro Arg Asn  
 145 150 155 160  
 Gly Pro Glu Pro Phe His Pro Thr Thr Asp Ala Thr Ser Cys Thr Glu  
 165 170 175  
 Ile Asp Cys Gly Thr Pro Pro Glu Val Pro Asp Gly Tyr Ile Ile Gly  
 180 185 190  
 Asn Tyr Thr Ser Ser Leu Gly Ser Gln Val Arg Tyr Ala Cys Arg Glu  
 195 200 205  
 Gly Phe Phe Ser Val Pro Glu Asp Thr Val Ser Ser Cys Thr Gly Leu  
 210 215 220  
 Gly Thr Trp Glu Ser Pro Lys Leu His Cys Gln Glu Ile Asn Cys Gly  
 225 230 235 240  
 Asn Pro Pro Glu Met Arg His Ala Ile Leu Val Gly Asn His Ser Ser  
 245 250 255  
 Arg Leu Gly Gly Val Ala Arg Tyr Val Cys Gln Glu Gly Phe Glu Ser  
 260 265 270  
 Pro Gly Gly Lys Ile Thr Ser Val Cys Thr Glu Lys Gly Thr Trp Arg  
 275 280 285  
 Glu Ser Thr Leu Thr Cys Thr Glu Ile Leu Thr Lys Ile Asn Asp Val  
 290 295 300  
 Ser Leu Phe Asn Asp Thr Cys Val Arg Trp Gln Ile Asn Ser Arg Arg  
 305 310 315 320  
 Ile Asn Pro Lys Ile Ser Tyr Val Ile Ser Ile Lys Gly Gln Arg Leu  
 325 330 335  
 Asp Pro Met Glu Ser Val Arg Glu Glu Thr Val Asn Leu Thr Thr Asp  
 340 345 350  
 Ser Arg Thr Pro Glu Val Cys Leu Ala Leu Tyr Pro Gly Thr Asn Tyr  
 355 360 365  
 Thr Val Asn Ile Ser Thr Ala Pro Pro Arg Arg Ser Met Pro Ala Val  
 370 375 380  
 Ile Gly Phe Gln Thr Ala Glu Val Asp Leu Leu Glu Asp Asp Gly Ser  
 385 390 395 400  
 Phe Asn Ile Ser Ile Phe Asn Glu Thr Cys Leu Lys Leu Asn Arg Arg  
 405 410 415  
 Ser Arg Lys Val Gly Ser Glu His Met Tyr Gln Phe Thr Val Leu Gly  
 420 425 430  
 Gln Arg Trp Tyr Leu Ala Asn Phe Ser His Ala Thr Ser Phe Asn Phe  
 435 440 445

Thr Thr Arg Glu Gln Val Pro Val Val Cys Leu Asp Leu Tyr Pro Thr  
 450 455 460  
 Thr Asp Tyr Thr Val Asn Val Thr Leu Leu Arg Ser Pro Lys Arg His  
 465 470 475 480  
 Ser Val Gln Ile Thr Ile Ala Thr Pro Pro Ala Val Lys Gln Thr Ile  
 485 490 495  
 Ser Asn Ile Ser Gly Phe Asn Glu Thr Cys Leu Arg Trp Arg Ser Ile  
 500 505 510  
 Lys Thr Ala Asp Met Glu Glu Met Tyr Leu Phe His Ile Trp Gly Gln  
 515 520 525  
 Arg Trp Tyr Gln Lys Glu Phe Ala Gln Glu Met Thr Phe Asn Ile Ser  
 530 535 540  
 Ser Ser Ser Arg Asp Pro Glu Val Cys Leu Asp Leu Arg Pro Gly Thr  
 545 550 555 560  
 Asn Tyr Asn Val Ser Leu Arg Ala Leu Ser Ser Glu Leu Pro Val Val  
 565 570 575  
 Ile Ser Leu Thr Thr Gln Ile Thr Glu Pro Pro Leu Pro Glu Val Glu  
 580 585 590  
 Phe Phe Thr Val His Arg Gly Pro Leu Pro Arg Leu Arg Leu Arg Lys  
 595 600 605  
 Ala Lys Glu Lys Asn Gly Pro Ile Ser Ser Tyr Gln Val Leu Val Leu  
 610 615 620  
 Pro Leu Ala Leu Gln Ser Thr Phe Ser Cys Asp Ser Glu Gly Ala Ser  
 625 630 635 640  
 Ser Phe Phe Ser Asn Ala Ser Asp Ala Asp Gly Tyr Val Ala Ala Glu  
 645 650 655  
 Leu Leu Ala Lys Asp Val Pro Asp Asp Ala Met Glu Ile Pro Ile Gly  
 660 665 670  
 Asp Arg Leu Tyr Tyr Gly Glu Tyr Tyr Asn Ala Pro Leu Lys Arg Gly  
 675 680 685  
 Ser Asp Tyr Cys Ile Ile Leu Arg Ile Thr Ser Glu Trp Asn Lys Val  
 690 695 700  
 Arg Arg His Ser Cys Ala Val Trp Ala Gln Val Lys Asp Ser Ser Leu  
 705 710 715 720  
 Met Leu Leu Gln Met Ala Gly Val Gly Leu Gly Ser Leu Ala Val Val  
 725 730 735  
 Ile Ile Leu Thr Phe Leu Ser Phe Ser Ala Val  
 740 745





Arg Leu Gln Ala Gln Ala Xaa Arg Arg Gly Tyr Leu Pro Arg Ser Cys  
 100 105 110

Met Ser Ser Met Ala Phe Phe Leu  
 115 120

<210> 778

<211> 269

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (236)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (257)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 778

Met Gly Thr Val Ser Ser Arg Arg Ser Trp Trp Pro Leu Pro Leu Leu  
 1 5 10 15

Leu Leu Leu Leu Leu Leu Leu Gly Pro Ala Gly Ala Arg Ala Gln Glu  
 20 25 30

Asp Glu Asp Gly Asp Tyr Glu Glu Leu Val Leu Ala Leu Arg Ser Glu  
 35 40 45

Glu Asp Gly Leu Ala Glu Ala Pro Glu His Gly Thr Thr Ala Thr Phe  
 50 55 60

His Arg Cys Ala Lys Asp Pro Trp Arg Leu Pro Gly Thr Tyr Val Val  
 65 70 75 80

Val Leu Lys Glu Glu Thr His Leu Ser Gln Ser Glu Arg Thr Ala Arg  
 85 90 95

Arg Leu Gln Ala Gln Ala Ala Arg Arg Gly Tyr Leu Thr Lys Ile Leu  
 100 105 110

His Val Phe His Gly Leu Leu Pro Gly Phe Leu Val Lys Met Ser Gly  
 115 120 125

Asp Leu Leu Glu Leu Ala Leu Lys Leu Pro His Val Asp Tyr Ile Glu  
 130 135 140

Glu Asp Ser Ser Val Phe Ala Gln Ser Ile Pro Trp Asn Leu Glu Arg  
 145 150 155 160

Ile Thr Pro Pro Arg Tyr Arg Ala Asp Glu Tyr Gln Pro Pro Asp Gly  
 165 170 175

Gly Ser Leu Val Glu Val Tyr Leu Leu Asp Thr Ser Ile Gln Ser Asp  
 180 185 190

His Arg Glu Ile Glu Gly Arg Val Met Val Thr Asp Phe Glu Asn Val  
 195 200 205

Pro Glu Glu Asp Gly Thr Arg Phe His Arg Gln Ala Ser Lys Cys Asp  
 210 215 220

Ser His Gly Pro Thr Trp Gln Gly Trp Ser Ala Xaa Gly Met Pro Ala  
 225 230 235 240

Trp Pro Arg Val Pro Ala Cys Ala Ala Cys Ala Cys Phe Pro Lys Lys  
 245 250 255

Xaa Pro Leu Leu Gly Gly Pro Pro Gln Lys Lys Gly Gly  
 260 265

&lt;210&gt; 779

&lt;211&gt; 107

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (92)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 779

Met Val Arg Tyr Thr Tyr Ser Met Leu Ser Val Ile Gly Ile Ser Tyr  
 1 5 10 15

Ala Val Leu Thr Trp Leu Ser Gln Thr Leu Trp Met Pro Ile Tyr Pro  
 20 25 30

Leu Cys Val Leu Ala Glu Ala Phe Ala Ile Tyr Gln Ser Leu Pro Tyr  
 35 40 45

Phe Glu Ser Phe Gly Thr Tyr Ser Thr Lys Leu Pro Phe Asp Leu Ser  
 50 55 60

Ile Tyr Phe Pro Tyr Val Leu Lys Ile Tyr Leu Met Met Leu Phe Ile  
 65 70 75 80

Gly Met Tyr Phe Thr Tyr Ser His Leu Tyr Ser Xaa Arg Arg Asp Ile  
 85 90 95

Leu Gly Ile Phe Pro Ile Lys Lys Lys Lys Met  
 100 105

&lt;210&gt; 780

&lt;211&gt; 37

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 780

Met Val Arg Tyr Thr Tyr Ser Met Leu Ser Val Ile Gly Ile Ser Tyr  
 1 5 10 15

Ala Val Leu Thr Trp Ala Gln Ser Asn Thr Met Asp Ala Asn Leu Ser  
                   20                  25                  30

Phe Val Cys Ser Cys  
                   35

<210> 781

<211> 107

<212> PRT

<213> Homo sapiens

<400> 781

Met Val Arg Tyr Thr Tyr Ser Met Leu Ser Val Ile Gly Ile Ser Tyr  
   1                  5                  10                  15

Ala Val Leu Thr Trp Leu Ser Gln Thr Leu Trp Met Pro Ile Tyr Pro  
                   20                  25                  30

Leu Cys Val Leu Ala Glu Ala Phe Ala Ile Tyr Gln Ser Leu Pro Tyr  
                   35                  40                  45

Phe Glu Ser Phe Gly Thr Tyr Ser Thr Lys Leu Pro Phe Asp Leu Ser  
                   50                  55                  60

Ile Tyr Phe Pro Tyr Val Leu Lys Ile Tyr Leu Met Met Leu Phe Ile  
   65                  70                  75                  80

Gly Met Tyr Phe Thr Tyr Ser His Leu Tyr Ser Glu Arg Arg Asp Ile  
                   85                  90                  95

Leu Gly Ile Phe Pro Ile Lys Lys Lys Lys Met  
                   100                  105

<210> 782

<211> 53

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 782

Ser Asn Pro Ser His Ile Leu Met Ile Ser Ile Leu Leu Ser His Ala  
   1                  5                  10                  15

Ser Arg Gly Ala Gly Ala Asp Pro Lys Arg Ser Cys Cys Pro Gln Arg  
                   20                  25                  30

Val Gly Ser Arg Gly Arg Ala Xaa Val Arg Leu Thr Arg Leu Cys Ser  
                   35                  40                  45

Gln Pro Ser Pro His  
                   50

&lt;210&gt; 783

&lt;211&gt; 33

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 783

His His Val Ala Gln Ala Leu Pro Pro Ala Gly Ala Pro Arg Gly Arg  
 1 5 10 15

Pro His Gln Pro His Pro Ala Pro Val Gly Gln Gly Ser Pro Glu Arg  
 20 25 30

Gly

&lt;210&gt; 784

&lt;211&gt; 74

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 784

Met Gly Phe His His Val Ser Gln Ala Ala Leu Val Leu Leu Leu Leu  
 1 5 10 15

Leu Leu Leu Leu Leu Leu Phe Asp Thr Glu Ser Arg Ser Ser Leu Ala  
 20 25 30

Thr Glu Arg Asp Ser Ile Ser Lys Lys Lys Asn Lys Lys Thr Lys Lys  
 35 40 45

Lys Asn Arg Lys Glu Thr Lys Asn Val Val Leu Ile Leu Ile Asn Ser  
 50 55 60

Asn Ser Phe Met Trp Leu Ala Ala Ala Leu  
 65 70

&lt;210&gt; 785

&lt;211&gt; 74

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 785

Met Gly Phe His His Val Ser Gln Ala Ala Leu Val Leu Leu Leu Leu  
 1 5 10 15

Leu Leu Leu Leu Leu Leu Phe Asp Thr Glu Ser Arg Ser Ser Leu Ala  
 20 25 30

Thr Glu Arg Asp Ser Ile Ser Lys Lys Lys Asn Lys Lys Thr Lys Lys  
 35 40 45

Lys Asn Arg Lys Glu Thr Lys Asn Val Val Leu Ile Leu Ile Asn Ser  
 50 55 60

Asn Ser Phe Met Trp Leu Ala Ala Ala Leu  
65 70

<210> 786

<211> 178

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (157)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (170)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (171)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (177)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 786

Met Ala Ala Pro Arg Gly Arg Ala Ala Pro Trp Thr Thr Ala Leu Leu  
1 5 10 15

Leu Leu Leu Ala Ser Gln Val Leu Ser Pro Gly Ser Cys Ala Asp Glu  
20 25 30

Glu Glu Val Pro Glu Glu Trp Val Leu Leu His Val Val Gln Gly Gln  
35 40 45

Ile Gly Ala Gly Asn Tyr Ser Tyr Leu Arg Leu Asn His Glu Gly Lys  
50 55 60

Ile Val Leu Arg Met Arg Ser Leu Lys Gly Asp Ala Asp Leu Tyr Val  
65 70 75 80

Ser Ala Ser Ser Leu His Pro Ser Phe Asp Asp Tyr Glu Leu Gln Ser  
85 90 95

Ala Thr Cys Gly Pro Asp Ala Val Ser Ile Pro Ala His Phe Arg Arg  
100 105 110

Pro Val Gly Ile Gly Val Tyr Gly His Pro Ser His Leu Glu Ser Glu  
115 120 125

Phe Glu Met Lys Val Tyr Tyr Asp Gly Thr Val Glu Gln His Pro Phe  
130 135 140

Gly Glu Ala Ala Tyr Pro Ala Asp Gly Gln Met Pro Xaa Arg Ser Thr  
145 150 155 160

Leu Val Pro Arg Lys Thr Pro Arg Lys Xaa Xaa Asn Leu Phe Ser Gly  
 165 170 175

Xaa Tyr

<210> 787

<211> 191

<212> PRT

<213> Homo sapiens

<400> 787

Met Ala Ala Pro Arg Gly Arg Ala Ala Pro Trp Thr Thr Ala Leu Leu  
 1 5 10 15

Leu Leu Leu Ala Ser Gln Val Leu Ser Pro Gly Ser Cys Ala Asp Glu  
 20 25 30

Glu Glu Val Pro Glu Glu Trp Val Leu Leu His Val Val Gln Gly Gln  
 35 40 45

Ile Gly Ala Gly Asn Tyr Ser Tyr Leu Arg Leu Asn His Glu Gly Lys  
 50 55 60

Ile Val Leu Arg Met Arg Ser Leu Lys Gly Asp Ala Asp Leu Tyr Val  
 65 70 75 80

Ser Ala Ser Ser Leu His Pro Ser Phe Asp Asp Tyr Glu Leu Gln Ser  
 85 90 95

Ala Thr Cys Gly Pro Asp Ala Val Ser Ile Pro Ala His Phe Arg Arg  
 100 105 110

Pro Val Gly Ile Gly Val Tyr Gly His Pro Ser His Leu Glu Ser Glu  
 115 120 125

Phe Glu Met Lys Val Tyr Tyr Asp Gly Thr Val Glu Gln His Pro Phe  
 130 135 140

Gly Glu Ala Ala Tyr Pro Ala Asp Gly Ala Asp Ala Gly Gln Lys His  
 145 150 155 160

Ala Gly Ala Pro Glu Asp Ala Ser Gln Glu Glu Glu Ser Val Leu Trp  
 165 170 175

Thr Ile Leu Ile Ser Ile Leu Lys Leu Glu Leu Glu Ile Leu Phe  
 180 185 190

<210> 788

<211> 8

<212> PRT

<213> Homo sapiens

<400> 788

Thr Ala Ile Phe Phe Leu Leu Val

1

5

&lt;210&gt; 789

&lt;211&gt; 56

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (9)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (24)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (30)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 789

Met	Arg	Phe	Trp	Phe	Leu	Val	Phe	Xaa	Phe	Phe	Phe	Phe	Pro	Glu	Ala
1				5					10					15	

His	Val	Tyr	Pro	Thr	Ser	Trp	Xaa	Val	Ser	Glu	Gln	Gly	Xaa	Ala	Thr
			20					25					30		

Ile	Ser	Val	Thr	Pro	Gly	Ile	Leu	Asn	Trp	Ile	Phe	Val	Glu	Glu	Glu
		35					40					45			

Asn	Asn	Thr	Val	Leu	Asp	Phe	Pro
	50					55	

&lt;210&gt; 790

&lt;211&gt; 279

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 790

Glu	Glu	Arg	Trp	Lys	Ser	Pro	Glu	Val	Arg	Trp	Ala	Pro	Gly	Val	Ala
1				5					10					15	

Met	Glu	Glu	Ser	Gly	Tyr	Glu	Ser	Val	Leu	Cys	Val	Lys	Pro	Asp	Val
			20					25					30		

His	Val	Tyr	Arg	Ile	Pro	Pro	Arg	Ala	Thr	Asn	Arg	Gly	Tyr	Arg	Ala
			35				40					45			

Ala	Glu	Trp	Gln	Leu	Asp	Gln	Pro	Ser	Trp	Ser	Gly	Arg	Leu	Arg	Ile
	50					55					60				

Thr	Ala	Lys	Gly	Gln	Met	Ala	Tyr	Ile	Lys	Leu	Glu	Asp	Arg	Thr	Ser
	65					70				75				80	



Gly Glu Leu Phe Ala Gln Ala Pro Val Asp Gln Phe Pro Gly Thr Ala  
                             85                            90                            95  
 Val Glu Ser Val Thr Asp Ser Ser Arg Tyr Phe Val Ile Arg Ile Glu  
                             100                            105                            110  
 Asp Gly Asn Gly Arg Arg Ala Phe Ile Gly Ile Gly Phe Gly Asp Arg  
                             115                            120                            125  
 Gly Asp Ala Phe Asp Phe Asn Val Ala Leu Gln Asp His Phe Lys Trp  
                             130                            135                            140  
 Val Lys Gln Gln Cys Glu Phe Ala Lys Gln Ala Gln Asn Pro Asp Gln  
                             145                            150                            155                            160  
 Gly Pro Lys Leu Asp Leu Gly Phe Lys Glu Gly Gln Thr Ile Lys Leu  
                             165                            170                            175  
 Asn Ile Ala Asn Met Lys Lys Lys Glu Gly Ala Ala Gly Asn Pro Arg  
                             180                            185                            190  
 Val Arg Pro Ala Ser Thr Gly Gly Leu Ser Leu Leu Pro Pro Pro Pro  
                             195                            200                            205  
 Gly Gly Lys Thr Ser Thr Leu Ile Pro Pro Pro Gly Glu Gln Leu Ala  
                             210                            215                            220  
 Val Gly Gly Ser Leu Val Gln Pro Ala Val Ala Pro Ser Ser Gly Gly  
                             225                            230                            235                            240  
 Ala Pro Val Pro Trp Pro Gln Pro Asn Pro Ala Thr Ala Asp Ile Trp  
                             245                            250                            255  
 Gly Asp Phe Thr Lys Ser Thr Gly Ser Thr Ser Ser Gln Thr Gln Pro  
                             260                            265                            270  
 Gly Thr Gly Trp Val Gln Phe  
                             275

&lt;210&gt; 791

&lt;211&gt; 106

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 791

Arg Ser Arg Ser Lys Pro Arg Cys Asn Cys Glu Ile Val Thr Ile Phe  
           1                            5                            10                            15  
 Phe Ala Arg Phe Lys Ile Gly Pro Gly Arg His Arg Lys Arg Lys Ile  
                             20                            25                            30  
 Pro Lys Leu Cys Ser Ser Gly Ser Thr Ile Gly Arg Val Tyr Ser Leu  
                             35                            40                            45  
 Pro Gly Leu Leu Arg Arg Gly Ser Cys Leu Phe Gly Tyr Ile Thr Pro  
                             50                            55                            60  
 Asp Trp Phe Val Leu Lys Ile Asn Val Ile Met Leu Val Ser Tyr Leu

65					70					75					80
Met	Val	Ser	Leu	Glu	His	Ser	Pro	Leu	Ile	Leu	Phe	Glu	Arg	Val	Gly
				85					90					95	
Gly	Arg	Asp	Cys	Glu	Gly	Arg	Glu	Lys	Cys						
			100					105							

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<210> 792
<211> 56
<212> PRT
<213> Homo sapiens
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<400> 792
Met Arg Phe Trp Phe Leu Val Phe Cys Phe Phe Phe Phe Pro Glu Ala
  1             5             10             15

His Val Tyr Pro Thr Ser Trp Ser Val Ser Glu Gln Gly Cys Ala Thr
      20             25             30

Ile Ser Val Thr Pro Gly Ile Leu Asn Trp Ile Phe Val Glu Glu Glu
      35             40             45

Asn Asn Thr Val Leu Asp Phe Pro
  50             55

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<210> 793
<211> 41
<212> PRT
<213> Homo sapiens.
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<400> 793
Met Thr Phe Ser Pro Leu Met Cys Tyr Cys Cys Cys Trp Val Gly Trp
  1                      5                      10                      15

Ala Phe Cys Leu Phe Val Trp Trp Gln Ser Val Val Val Gly Ser Gly
      20                      25                      30

Arg Ala Tyr Ile Gly Phe Ser Ser Tyr
    35                      40

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```
<210> 794
<211> 41
<212> PRT
<213> Homo sapiens
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```
<400> 794
Met Thr Phe Ser Pro Leu Met Cys Tyr Cys Cys Cys Trp Val Gly Trp
  1                      5              10                15
Ala Phe Cys Leu Phe Val Trp Trp Gln Ser Val Val Val Gly Ser Gly
      20                    25          30
Arg Ala Tyr Ile Gly Phe Ser Ser Tyr
```

35

40

<210> 795  
 <211> 41  
 <212> PRT  
 <213> Homo sapiens

<400> 795  
 Met Thr Phe Ser Pro Leu Met Cys Tyr Cys Cys Cys Trp Val Gly Trp  
           1                          5                          10                          15  
 Ala Phe Cys Leu Phe Val Trp Trp Gln Ser Val Val Val Gly Ser Gly  
                           20                          25                          30  
 Arg Ala Tyr Ile Gly Phe Ser Ser Tyr  
                   35                          40

<210> 796  
 <211> 43  
 <212> PRT  
 <213> Homo sapiens

<400> 796  
 Phe Leu Arg Phe Asp Gly Ile Ile Met Glu Ala Leu Tyr Lys Leu Asn  
           1                          5                          10                          15  
 Glu Ile Gly Lys Gly Glu Leu Thr Leu Ser Ile Met His Ser Gly Leu  
                   20                          25                          30  
 Lys Ile Arg Phe Gln Asn Glu Met Ser Asp Leu  
                   35                          40

<210> 797  
 <211> 12  
 <212> PRT  
 <213> Homo sapiens

<400> 797  
 Ile Gly Val Asn Tyr Leu Leu Leu Phe Phe Ile Phe  
           1                          5                          10

<210> 798  
 <211> 19  
 <212> PRT  
 <213> Homo sapiens

<400> 798  
 Lys Leu Gly Phe Ser Thr Ile Leu Leu Leu Ser Ile Phe Ile Met Ser  
           1                          5                          10                          15  
 Glu Ala Asn

<210> 799  
<211> 19  
<212> PRT  
<213> Homo sapiens

<400> 799  
Lys Leu Gly Phe Ser Thr Ile Leu Leu Leu Ser Ile Phe Ile Met Ser  
1 5 10 15

Glu Ala Asn

<210> 800  
<211> 23  
<212> PRT  
<213> Homo sapiens

<400> 800  
Leu Cys Val Cys Thr Gly Cys Pro Gly Gly Gly Pro Gln Ile Pro Phe  
1 5 10 15

Arg Trp Gln Thr Glu Arg Gly  
20

<210> 801  
<211> 29  
<212> PRT  
<213> Homo sapiens

<400> 801  
Val Cys Val Cys Val Cys Leu Ile Ala Arg Val Tyr Phe Cys Ile Tyr  
1 5 10 15

Val Cys Val Trp Leu His Gly Cys Ala Ser Val Cys Leu  
20 25

<210> 802  
<211> 6  
<212> PRT  
<213> Homo sapiens

<400> 802  
Val Leu Pro Ser Ala Ser  
1 5

<210> 803  
<211> 35  
<212> PRT  
<213> Homo sapiens

WO 01/77137

PCT/US01/11988

<220>  
 <221> SITE  
 <222> (10)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (27)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 803  
 Met Arg Ala Ser Gly Val Tyr Val Ser Xaa Cys Ser Phe Val Phe Met  
           1                  5                  10                  15

Cys Val Cys Val Cys Met Leu Asn Ser Arg Xaa Thr Phe Asp Tyr Gly  
                   20                  25                  30

Val Cys Gly  
           35

<210> 804  
 <211> 56  
 <212> PRT  
 <213> Homo sapiens

<400> 804  
 Met Arg Ala Ser Gly Val Tyr Val Ser Glu Cys Ser Phe Val Phe Met  
           1                  5                  10                  15

Cys Val Cys Val Cys Met Ser Asp Cys Thr Gly Val Leu Leu Tyr Leu  
                   20                  25                  30

Cys Val Cys Val Val Ala Arg Val Cys Leu Cys Val Ser Leu Thr Leu  
           35                  40                  45

Ala Gly Cys Val Cys Lys Ser Val  
       50                  55

<210> 805  
 <211> 60  
 <212> PRT  
 <213> Homo sapiens

<400> 805  
 Met Ile Arg Ile Gln Phe Leu His Leu Phe Leu Trp Val Gly Phe Ile  
           1                  5                  10                  15

Phe Arg Gln Pro Pro Ser Ser Tyr Pro Gln Asp Gly Arg Asp Ser Pro  
           20                  25                  30

Trp Ser Phe Pro Cys Arg Asp Arg Ser Pro Gly Asn Asn Thr Ser Ile  
           35                  40                  45

Pro Ser His Glu Thr Val Leu Asn Phe Ile Leu Thr  
           50                  55                  60

<210> 806  
 <211> 60  
 <212> PRT  
 <213> Homo sapiens

<400> 806  
 Met Ile Arg Ile Gln Phe Leu His Leu Phe Leu Trp Val Gly Phe Ile  
           1                  5                  10                  15  
 Phe Arg Gln Pro Pro Ser Ser Tyr Pro Gln Asp Gly Arg Asp Ser Pro  
                   20                  25                  30  
 Trp Ser Phe Pro Cys Arg Asp Arg Ser Pro Gly Asn Asn Thr Ser Ile  
           35                  40                  45  
 Pro Ser His Glu Thr Val Leu Asn Phe Ile Leu Thr  
           50                  55                  60

<210> 807  
 <211> 444  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (92)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (95)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (97)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (98)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (101)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 807  
 Met Leu Gln Arg Ile Gly Leu Ile Phe Leu His Asn Ile Val Val Val  
           1                  5                  10                  15  
 Ser Asn Cys Phe Tyr Phe Gln Ala Phe Leu Asp Glu Phe Thr Asn Trp  
                   20                  25                  30

Ser Arg Ile Asn Pro Asn Lys Ala Arg Ile Pro Met Ala Gly Asp Thr  
 35 40 45  
 Gln Gly Val Val Gly Thr Val Ser Lys Pro Cys Phe Thr Ala Tyr Glu  
 50 55 60  
 Met Lys Ile Gly Ala Ile Thr Phe Gln Val Ala Thr Gly Asp Ile Ala  
 65 70 75 80  
 Thr Glu Gln Val Asp Val Ile Val Asn Ser Thr Xaa Arg Thr Xaa Asn  
 85 90 95  
 Xaa Xaa Ser Gly Xaa Ser Arg Ala Ile Leu Glu Gly Ala Gly Gln Ala  
 100 105 110  
 Val Glu Ser Glu Cys Ala Val Leu Ala Ala Gln Pro His Arg Asp Phe  
 115 120 125  
 Ile Ile Thr Pro Gly Gly Cys Leu Lys Cys Lys Ile Ile Ile His Val  
 130 135 140  
 Pro Gly Gly Lys Asp Val Arg Lys Thr Val Thr Ser Val Leu Glu Glu  
 145 150 155 160  
 Cys Glu Gln Arg Lys Tyr Thr Ser Val Ser Leu Pro Ala Ile Gly Thr  
 165 170 175  
 Gly Asn Ala Gly Lys Asn Pro Ile Thr Val Ala Asp Asn Ile Ile Asp  
 180 185 190  
 Ala Ile Val Asp Phe Ser Ser Gln His Ser Thr Pro Ser Leu Lys Thr  
 195 200 205  
 Val Lys Val Val Ile Phe Gln Pro Glu Leu Leu Asn Ile Phe Tyr Asp  
 210 215 220  
 Ser Met Lys Lys Arg Asp Leu Ser Ala Ser Leu Asn Phe Gln Ser Thr  
 225 230 235 240  
 Phe Ser Met Thr Thr Cys Asn Leu Pro Glu His Trp Thr Asp Met Asn  
 245 250 255  
 His Gln Leu Phe Cys Met Val Gln Leu Glu Pro Gly Gln Ser Glu Tyr  
 260 265 270  
 Asn Thr Ile Lys Asp Lys Phe Thr Arg Thr Cys Ser Ser Tyr Ala Ile  
 275 280 285  
 Glu Lys Ile Glu Arg Ile Gln Asn Ala Phe Leu Trp Gln Ser Tyr Gln  
 290 295 300  
 Val Lys Lys Arg Gln Met Asp Ile Lys Asn Asp His Lys Asn Asn Glu  
 305 310 315 320  
 Arg Leu Leu Phe His Gly Thr Asp Ala Asp Ser Val Pro Tyr Val Asn  
 325 330 335  
 Gln His Gly Phe Asn Arg Ser Cys Ala Gly Lys Asn Ala Val Ser Tyr  
 340 345 350

Gly Lys Gly Thr Tyr Phe Ala Val Asp Ala Ser Tyr Ser Ala Lys Asp  
           355                          360                          365  
 Thr Tyr Ser Lys Pro Asp Ser Asn Gly Arg Lys His Met Tyr Val Val  
           370                          375                          380  
 Arg Val Leu Thr Gly Val Phe Thr Lys Gly Arg Ala Gly Leu Val Thr  
 385                          390                          395                          400  
 Pro Pro Pro Lys Asn Pro His Asn Pro Thr Asp Leu Phe Asp Ser Val  
                           405                          410                          415  
 Thr Asn Asn Thr Arg Ser Pro Lys Leu Phe Val Val Phe Phe Asp Asn  
                           420                          425                          430  
 Gln Ala Tyr Pro Glu Tyr Leu Ile Thr Phe Thr Ala  
           435                          440

&lt;210&gt; 808

&lt;211&gt; 505

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (358)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (494)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (504)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (505)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 808

Met Phe Arg Thr Ala Val Met Met Ala Ala Ser Leu Ala Leu Thr Gly  
   1                          5                          10                          15

Ala Val Val Ala His Ala Tyr Tyr Leu Lys His Gln Phe Tyr Pro Thr  
           20                          25                          30

Val Val Tyr Leu Thr Lys Ser Ser Pro Ser Met Ala Val Leu Tyr Ile  
           35                          40                          45

Gln Ala Phe Val Leu Val Phe Leu Leu Gly Lys Val Met Gly Lys Val  
   50                          55                          60

Phe Phe Gly Gln Leu Arg Ala Ala Glu Met Glu His Leu Leu Glu Arg  
   65                          70                          75                          80



Ser Trp Tyr Ala Val Thr Glu Thr Cys Leu Ala Phe Thr Val Phe Arg  
 85 90 95  
 Asp Asp Phe Ser Pro Arg Phe Val Ala Leu Phe Thr Leu Leu Leu Phe  
 100 105 110  
 Leu Lys Cys Phe His Trp Leu Ala Glu Asp Arg Val Asp Phe Met Glu  
 115 120 125  
 Arg Ser Pro Asn Ile Ser Trp Leu Phe His Cys Arg Ile Val Ser Leu  
 130 135 140  
 Met Phe Leu Leu Gly Ile Leu Asp Phe Leu Phe Val Ser His Ala Tyr  
 145 150 155 160  
 His Ser Ile Leu Thr Arg Gly Ala Ser Val Gln Leu Val Phe Gly Phe  
 165 170 175  
 Glu Tyr Ala Ile Leu Met Thr Met Val Leu Thr Ile Phe Ile Lys Tyr  
 180 185 190  
 Val Leu His Ser Val Asp Leu Gln Ser Glu Asn Pro Trp Asp Asn Lys  
 195 200 205  
 Ala Val Tyr Met Leu Tyr Thr Glu Leu Phe Thr Gly Phe Ile Lys Val  
 210 215 220  
 Leu Leu Tyr Met Ala Phe Met Thr Ile Met Ile Lys Val His Thr Phe  
 225 230 235 240  
 Pro Leu Phe Ala Ile Arg Pro Met Tyr Leu Ala Met Arg Gln Phe Lys  
 245 250 255  
 Lys Ala Val Thr Asp Ala Ile Met Ser Arg Arg Ala Ile Arg Asn Met  
 260 265 270  
 Asn Thr Leu Tyr Pro Asp Ala Thr Pro Glu Glu Leu Gln Ala Met Asp  
 275 280 285  
 Asn Val Cys Ile Ile Cys Arg Glu Glu Met Val Thr Gly Ala Lys Arg  
 290 295 300  
 Leu Pro Cys Asn His Ile Phe His Thr Ser Cys Leu Arg Ser Trp Phe  
 305 310 315 320  
 Gln Arg Gln Gln Thr Cys Pro Thr Cys Arg Met Asp Val Leu Arg Ala  
 325 330 335  
 Ser Leu Pro Ala Gln Ser Pro Pro Pro Pro Glu Pro Ala Asp Gln Gly  
 340 345 350  
 Pro Pro Pro Ala Pro Xaa Pro Pro Pro Leu Leu Pro Gln Pro Pro Asn  
 355 360 365  
 Phe Pro Gln Gly Leu Leu Pro Pro Phe Pro Pro Gly Met Phe Pro Leu  
 370 375 380  
 Trp Pro Pro Met Gly Pro Phe Pro Pro Val Pro Pro Pro Pro Ser Ser  
 385 390 395 400

Gly Glu Ala Val Ala Pro Pro Ser Thr Ser Ala Ala Ala Leu Ser Arg  
                                   405                                  410                                  415  
 Pro Ser Gly Ala Ala Thr Thr Thr Ala Ala Gly Thr Ser Ala Thr Ala  
                                   420                                  425                                  430  
 Ala Ser Ala Thr Ala Ser Gly Pro Gly Ser Gly Ser Ala Pro Glu Ala  
                                   435                                  440                                  445  
 Gly Pro Ala Pro Gly Phe Pro Phe Pro Pro Pro Trp Met Gly Met Pro  
                                   450                                  455                                  460  
 Leu Pro Pro Pro Phe Ala Phe Pro Pro Met Pro Val Pro Pro Ala Gly  
                                   465                                  470                                  475                                  480  
 Phe Ala Gly Leu Thr Pro Glu Glu Tyr Glu Leu Trp Arg Xaa Met Ser  
                                   485                                  490                                  495  
 Gly Arg Thr Gly Gly Pro Val Xaa Xaa  
                                   500                                  505

<210> 809  
 <211> 191  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (18)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (21)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 809  
 Met Phe Arg Thr Ala Val Met Met Ala Ala Ser Ile Trp Pro Arg Leu  
   1                                  5                                  10                                  15  
 Trp Xaa Cys Pro Xaa Gly Trp Pro Cys Pro Trp Phe Pro Leu Pro Ser  
                                   20                                  25                                  30  
 Ser Leu Asp Gly Tyr Ala Pro Ala Ser Thr Leu Cys Leu Pro Pro Asn  
                                   35                                  40                                  45  
 Ala Cys Ala Pro Cys Gly Phe Ala Gly Leu Thr Pro Glu Glu Leu Arg  
                                   50                                  55                                  60  
 Ala Leu Glu Gly His Glu Arg Gln His Leu Glu Ala Arg Leu Gln Ser  
                                   65                                  70                                  75                                  80  
 Leu Arg Asn Ile His Thr Leu Leu Asp Ala Ala Met Leu Gln Ile Asn  
                                   85                                  90                                  95  
 Gln Tyr Leu Thr Val Leu Ala Ser Leu Gly Pro Pro Arg Pro Ala Thr  
                                   100                                  105                                  110

Ser Val Asn Ser Thr Glu Glu Thr Ala Thr Thr Val Val Ala Ala Ala  
 115 120 125

Ser Ser Thr Ser Ile Pro Ser Ser Glu Ala Thr Thr Pro Thr Pro Gly  
 130 135 140

Ala Ser Pro Pro Ala Pro Glu Met Glu Arg Pro Pro Ala Pro Glu Ser  
 145 150 155 160

Val Gly Thr Glu Glu Met Pro Glu Asp Gly Glu Pro Asp Ala Ala Glu  
 165 170 175

Leu Arg Arg Arg Arg Leu Gln Lys Leu Glu Ser Pro Val Ala His  
 180 185 190

&lt;210&gt; 810

&lt;211&gt; 617

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 810

Met Phe Arg Thr Ala Val Met Met Ala Ala Ser Leu Ala Leu Thr Gly  
 1 5 10 15

Ala Val Val Ala His Ala Tyr Tyr Leu Lys His Gln Phe Tyr Pro Thr  
 20 25 30

Val Val Tyr Leu Thr Lys Ser Ser Pro Ser Met Ala Val Leu Tyr Ile  
 35 40 45

Gln Ala Phe Val Leu Val Phe Leu Leu Gly Lys Val Met Gly Lys Val  
 50 55 60

Phe Phe Gly Gln Leu Arg Ala Ala Glu Met Glu His Leu Leu Glu Arg  
 65 70 75 80

Ser Trp Tyr Ala Val Thr Glu Thr Cys Leu Ala Phe Thr Val Phe Arg  
 85 90 95

Asp Asp Phe Ser Pro Arg Phe Val Ala Leu Phe Thr Leu Leu Leu Phe  
 100 105 110

Leu Lys Cys Phe His Trp Leu Ala Glu Asp Arg Val Asp Phe Met Glu  
 115 120 125

Arg Ser Pro Asn Ile Ser Trp Leu Phe His Cys Arg Ile Val Ser Leu  
 130 135 140

Met Phe Leu Leu Gly Ile Leu Asp Phe Leu Phe Val Ser His Ala Tyr  
 145 150 155 160

His Ser Ile Leu Thr Arg Gly Ala Ser Val Gln Leu Val Phe Gly Phe  
 165 170 175

Glu Tyr Ala Ile Leu Met Thr Met Val Leu Thr Ile Phe Ile Lys Tyr  
 180 185 190

Val Leu His Ser Val Asp Leu Gln Ser Glu Asn Pro Trp Asp Asn Lys  
 195 200 205  
 Ala Val Tyr Met Leu Tyr Thr Glu Leu Phe Thr Gly Phe Ile Lys Val  
 210 215 220  
 Leu Leu Tyr Met Ala Phe Met Thr Ile Met Ile Lys Val His Thr Phe  
 225 230 235 240  
 Pro Leu Phe Ala Ile Arg Pro Met Tyr Leu Ala Met Arg Gln Phe Lys  
 245 250 255  
 Lys Ala Val Thr Asp Ala Ile Met Ser Arg Arg Ala Ile Arg Asn Met  
 260 265 270  
 Asn Thr Leu Tyr Pro Asp Ala Thr Pro Glu Glu Leu Gln Ala Met Asp  
 275 280 285  
 Asn Val Cys Ile Ile Cys Arg Glu Glu Met Val Thr Gly Ala Lys Arg  
 290 295 300  
 Leu Pro Cys Asn His Ile Phe His Thr Ser Cys Leu Arg Ser Trp Phe  
 305 310 315 320  
 Gln Arg Gln Gln Thr Cys Pro Thr Cys Arg Met Asp Val Leu Arg Ala  
 325 330 335  
 Ser Leu Pro Ala Gln Ser Pro Pro Pro Glu Pro Ala Asp Gln Gly  
 340 345 350  
 Pro Pro Pro Ala Pro His Pro Pro Pro Leu Leu Pro Gln Pro Pro Asn  
 355 360 365  
 Phe Pro Gln Gly Leu Leu Pro Pro Phe Pro Pro Gly Met Phe Pro Leu  
 370 375 380  
 Trp Pro Pro Met Gly Pro Phe Pro Pro Val Pro Pro Pro Ser Ser  
 385 390 395 400  
 Gly Glu Ala Val Ala Pro Pro Ser Thr Ser Ala Ala Ala Leu Ser Arg  
 405 410 415  
 Pro Ser Gly Ala Ala Thr Thr Thr Ala Ala Gly Thr Ser Ala Thr Ala  
 420 425 430  
 Ala Ser Ala Thr Ala Ser Gly Pro Gly Ser Gly Ser Ala Pro Glu Ala  
 435 440 445  
 Gly Pro Ala Pro Gly Phe Pro Phe Pro Pro Trp Met Gly Met Pro  
 450 455 460  
 Leu Pro Pro Pro Phe Ala Phe Pro Pro Met Pro Val Pro Pro Ala Gly  
 465 470 475 480  
 Phe Ala Gly Leu Thr Pro Glu Glu Leu Arg Ala Leu Glu Gly His Glu  
 485 490 495  
 Arg Gln His Leu Glu Ala Arg Leu Gln Ser Leu Arg Asn Ile His Thr  
 500 505 510

Leu Leu Asp Ala Ala Met Leu Gln Ile Asn Gln Tyr Leu Thr Val Leu  
 515 520 525  
 Ala Ser Leu Gly Pro Pro Arg Pro Ala Thr Ser Val Asn Ser Thr Glu  
 530 535 540  
 Glu Thr Ala Thr Thr Val Val Ala Ala Ala Ser Ser Thr Ser Ile Pro  
 545 550 555 560  
 Ser Ser Glu Ala Thr Thr Pro Thr Pro Gly Ala Ser Pro Pro Ala Pro  
 565 570 575  
 Glu Met Glu Arg Pro Pro Ala Pro Glu Ser Val Gly Thr Glu Glu Met  
 580 585 590  
 Pro Glu Asp Gly Glu Pro Asp Ala Ala Glu Leu Arg Arg Arg Arg Leu  
 595 600 605  
 Gln Lys Leu Glu Ser Pro Val Ala His  
 610 615

<210> 811  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 811  
 Met Asn Val Arg Leu Val Leu Asn Pro Phe Pro Leu Tyr Ser Val Tyr  
 1 5 10 15  
 Val Ile Pro Asn  
 20

<210> 812  
 <211> 11  
 <212> PRT  
 <213> Homo sapiens

<400> 812  
 Leu Glu Ile Leu Val Val Lys Lys Leu Leu Ala  
 1 5 10

<210> 813  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 813  
 Met Asn Val Arg Leu Val Leu Asn Pro Phe Pro Leu Tyr Ser Val Tyr  
 1 5 10 15

Val Ile Pro Asn  
 20

<210> 814  
 <211> 62  
 <212> PRT  
 <213> Homo sapiens

<400> 814  
 Met Leu Cys Pro Ala Leu Gly Pro Phe Leu Leu Phe Leu Leu Ser Ser  
     1                    5                    10                    15  
 Thr Leu Met Ala Ser Phe Met Gly Asp Thr Pro Cys His Pro Gly Glu  
                     20                    25                    30  
 Leu Ser Ala Phe Gly Val Ala Pro Ser Arg Val Phe Thr Ser Ser Phe  
                     35                    40                    45  
 Leu Phe Thr Val Phe Thr Pro Ser Tyr Pro Ser Leu Pro Gly  
                     50                    55                    60

<210> 815  
 <211> 62  
 <212> PRT  
 <213> Homo sapiens

<400> 815  
 Met Leu Cys Pro Ala Leu Gly Pro Phe Leu Leu Phe Leu Leu Ser Ser  
     1                    5                    10                    15  
 Thr Leu Met Ala Ser Phe Met Gly Asp Thr Pro Cys His Pro Gly Glu  
                     20                    25                    30  
 Leu Ser Ala Phe Gly Val Ala Pro Ser Arg Val Phe Thr Ser Ser Phe  
                     35                    40                    45  
 Leu Phe Thr Val Phe Thr Pro Ser Tyr Pro Ser Leu Pro Gly  
                     50                    55                    60

<210> 816  
 <211> 51  
 <212> PRT  
 <213> Homo sapiens

<400> 816  
 Gln Ala Ser Trp Val Trp Trp Leu Thr Thr Val Ile Pro Ala Leu Trp  
     1                    5                    10                    15  
 Glu Ala Arg Ala Gly Gly Ser Leu Glu Pro Arg Ser Ser Arg Leu Ala  
                     20                    25                    30  
 Trp Ala Thr Gln Lys Val Phe Ile Ser Lys Lys Lys Lys Lys Lys Lys  
                     35                    40                    45  
 Arg Ala Ala  
                     50

<210> 817  
 <211> 19  
 <212> PRT  
 <213> Homo sapiens

<400> 817  
 Leu Val Cys Phe Val Ile Phe Arg Leu Trp Tyr Met Cys Val Phe Thr  
           1                  5                  10                  15

Leu Trp Ala

<210> 818  
 <211> 4  
 <212> PRT  
 <213> Homo sapiens

<400> 818  
 Phe Leu Ser Ser  
           1

<210> 819  
 <211> 53  
 <212> PRT  
 <213> Homo sapiens

<400> 819  
 Met Phe Ile Ser Leu Phe Ile Phe Gly Leu Val Arg Leu Trp Pro Cys  
           1                  5                  10                  15

Cys Val Val Ile Tyr Phe Val Tyr Ser Ile Cys Lys His Gln Cys Ser  
                   20                  25                  30

Gln Glu Ala His Ser Ser Ile Phe Asn Cys Lys Phe Val Ser Gln Ser  
           35                  40                  45

Gln Phe Ser Ile Met  
           50

<210> 820  
 <211> 53  
 <212> PRT  
 <213> Homo sapiens

<400> 820  
 Met Phe Ile Ser Leu Phe Ile Phe Gly Leu Val Arg Leu Trp Pro Cys  
           1                  5                  10                  15

Cys Val Val Ile Tyr Phe Val Tyr Ser Ile Cys Lys His Gln Cys Ser  
                   20                  25                  30

Gln Glu Ala His Ser Ser Ile Phe Asn Cys Lys Phe Val Ser Gln Ser

35

40

45

Gln Phe Ser Ile Met  
50

&lt;210&gt; 821

&lt;211&gt; 283

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 821

Met Ile Phe Leu Leu Leu Met Leu Ser Leu Glu Leu Gln Leu His Gln  
1 5 10 15

Ile Ala Ala Leu Phe Thr Val Thr Val Pro Lys Glu Leu Tyr Ile Ile  
20 25 30

Glu His Gly Ser Asn Val Thr Leu Glu Cys Asn Phe Asp Thr Gly Ser  
35 40 45

His Val Asn Leu Gly Ala Ile Thr Ala Ser Leu Gln Lys Val Glu Asn  
50 55 60

Asp Thr Ser Pro His Arg Glu Arg Ala Thr Leu Leu Glu Glu Gln Leu  
65 70 75 80

Pro Leu Gly Lys Ala Ser Phe His Ile Pro Gln Val Gln Val Arg Asp  
85 90 95

Glu Gly Gln Tyr Gln Cys Ile Ile Ile Tyr Gly Val Ala Trp Asp Tyr  
100 105 110

Lys Tyr Leu Thr Leu Lys Val Lys Ala Ser Tyr Arg Lys Ile Asn Thr  
115 120 125

His Ile Leu Lys Val Pro Glu Thr Asp Glu Val Glu Leu Thr Cys Gln  
130 135 140

Ala Thr Gly Tyr Pro Leu Ala Glu Val Ser Trp Pro Asn Val Ser Val  
145 150 155 160

Pro Ala Asn Thr Ser His Ser Arg Thr Pro Glu Gly Leu Tyr Gln Val  
165 170 175

Thr Ser Val Leu Arg Leu Lys Pro Pro Pro Gly Arg Asn Phe Ser Cys  
180 185 190

Val Phe Trp Asn Thr His Val Arg Glu Leu Thr Leu Ala Ser Ile Asp  
195 200 205

Leu Gln Ser Gln Met Glu Pro Arg Thr His Pro Thr Trp Leu Leu His  
210 215 220

Ile Phe Ile Pro Ser Cys Ile Ile Ala Phe Ile Phe Ile Ala Thr Val  
225 230 235 240

Ile Ala Leu Arg Lys Gln Leu Cys Gln Lys Leu Tyr Ser Ser Lys Asp  
245 250 255



Thr Thr Lys Arg Pro Val Thr Thr Thr Lys Arg Glu Val Asn Ser Ala  
 260 265 270

Val Asn Leu Asn Leu Trp Ser Trp Glu Pro Gly  
 275 280

<210> 822

<211> 93

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (89)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (92)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 822

Met Ile Phe Leu Leu Leu Met Leu Ser Leu Glu Leu Gln Leu His Gln  
 1 5 10 15

Ile Ala Ala Leu Phe Thr Val Thr Val Pro Lys Glu Leu Tyr Ile Ile  
 20 25 30

Glu His Gly Ser Asn Val Thr Leu Glu Cys Asn Phe Asp Thr Gly Ser  
 35 40 45

His Val Asn Leu Gly Ala Ile Thr Ala Ser Leu Gln Lys Val Glu Asn  
 50 55 60

Asp Thr Ser Pro His Arg Glu Arg Ala Thr Leu Leu Glu Glu Gln Leu  
 65 70 75 80

Pro Leu Gly Lys Ala Ser Phe Pro Xaa Leu Lys Xaa Lys  
 85 90

<210> 823

<211> 23

<212> PRT

<213> Homo sapiens

<400> 823

Leu Phe Leu Leu Leu Glu Ile Ser Thr His Leu Cys Phe Trp Lys Ser  
 1 5 10 15

Leu Arg Lys Leu Glu Gly Lys  
 20

<210> 824

<211> 46  
 <212> PRT  
 <213> Homo sapiens

<400> 824  
 Met Pro Trp Leu Lys Ser Leu Leu His Phe Ser Leu Phe Leu Val Val  
     1                    5                    10                    15  
 Phe Ser Thr Leu Ala Val Lys Ser Leu Gly Val Pro Val Ala Ala Gly  
                     20                    25                    30  
 Ser Pro Phe Cys Ile Val Asp Val Leu His Phe Ile Leu Leu  
                     35                    40                    45

<210> 825  
 <211> 46  
 <212> PRT  
 <213> Homo sapiens

<400> 825  
 Met Pro Trp Leu Lys Ser Leu Leu His Phe Ser Leu Phe Leu Val Val  
     1                    5                    10                    15  
 Phe Ser Thr Leu Ala Val Lys Ser Leu Gly Val Pro Val Ala Ala Gly  
                     20                    25                    30  
 Ser Pro Phe Cys Ile Val Asp Val Leu His Phe Ile Leu Leu  
                     35                    40                    45

<210> 826  
 <211> 67  
 <212> PRT  
 <213> Homo sapiens

<400> 826  
 Met Asp Arg Gly Val Met Cys Leu Leu Ala Ser Trp Pro Gly Leu Gly  
     1                    5                    10                    15  
 Ala Gln Phe Cys Gly Ala Gly Val Cys Pro Leu Arg Val Pro Ser Leu  
                     20                    25                    30  
 Glu Pro Thr Leu Pro Asn Asp Gly Gly Gly Leu Glu Ala Leu Thr Leu  
                     35                    40                    45  
 Gly Gly Lys Glu Ala Lys Glu Arg Trp Arg Trp Lys Gly Arg Pro Gly  
                     50                    55                    60  
 Gln Gly Gly  
     65

<210> 827  
 <211> 83  
 <212> PRT  
 <213> Homo sapiens

&lt;400&gt; 827

Gly His Val Leu Ala Tyr Ser Ser Trp Pro Ser Leu Ala Pro Gly Leu  
 1 5 10 15  
 Ser Val Gln Tyr Phe Val Ser Arg Val Glu Val Pro Asn Pro Gly Cys  
 20 25 30  
 Thr Leu Glu Ala Pro Gly Lys Leu Ser Glu Phe Leu Arg Pro Glu Pro  
 35 40 45  
 His Pro Lys Pro Ile Ser Ser Glu Ser Leu Gly Gly Thr Glu Pro Gly  
 50 55 60  
 Phe Cys Gln Leu Lys Pro Ala Met Val Thr Ser Val Ser Ser Tyr Thr  
 65 70 75 80  
 Glu Asn Ser

&lt;210&gt; 828

&lt;211&gt; 67

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 828

Met Asp Arg Gly Val Met Cys Leu Leu Ala Ser Trp Pro Gly Leu Gly  
 1 5 10 15  
 Ala Gln Phe Cys Gly Ala Gly Val Cys Pro Leu Arg Val Pro Ser Leu  
 20 25 30  
 Glu Pro Thr Leu Pro Asn Asp Gly Gly Gly Leu Glu Ala Leu Thr Leu  
 35 40 45  
 Gly Gly Lys Glu Ala Lys Glu Arg Trp Arg Trp Lys Gly Arg Pro Gly  
 50 55 60  
 Gln Gly Gly  
 65

&lt;210&gt; 829

&lt;211&gt; 83

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 829

Gly His Val Leu Ala Tyr Ser Ser Trp Pro Ser Leu Ala Pro Gly Leu  
 1 5 10 15  
 Ser Val Gln Tyr Phe Val Ser Arg Val Glu Val Pro Asn Pro Gly Cys  
 20 25 30  
 Thr Leu Glu Ala Pro Gly Lys Leu Ser Glu Phe Leu Arg Pro Glu Pro  
 35 40 45

His Pro Lys Pro Ile Ser Ser Glu Ser Leu Gly Gly Thr Glu Pro Gly  
 50 55 60  
 Phe Cys Gln Leu Lys Pro Ala Met Val Thr Ser Val Ser Ser Tyr Thr  
 65 70 75 80  
 Glu Asn Ser

<210> 830  
 <211> 66  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (9)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 830  
 Ser Trp Val Asp Phe Asp Cys Val Xaa Glu Val Ser Tyr Leu Asn Ser  
 1 5 10 15  
 Gly Ser Tyr Ser Leu Val Leu His Leu Glu Gly Leu His Pro Leu Glu  
 20 25 30  
 Leu Ser Gly Lys Leu Ala Ile Asp Phe Gly Lys Lys Arg Glu Phe Cys  
 35 40 45  
 Val Asp Gly Val Gly Gly Ala Thr Leu Val Ile Cys Pro Gly Phe Gln  
 50 55 60  
 Asp Phe  
 65

<210> 831  
 <211> 61  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (13)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 831  
 Met Trp Tyr Val Cys Ala Cys Val Cys Val Cys Val Xaa Val Cys Ser  
 1 5 10 15  
 Tyr Asn Arg Arg Thr Gly Lys Val Arg Thr Gln Asn Asn Glu Asp Leu  
 20 25 30  
 Leu Lys Cys Gly Gly Gly Val Cys Val Cys Val Phe Ile Glu Gln Glu  
 35 40 45  
 Asp Arg Lys Gly Asn Asp His Pro Trp Lys Met Lys Gly

50

55

60

<210> 832  
 <211> 11  
 <212> PRT  
 <213> Homo sapiens

<400> 832  
 Val Cys Cys Cys Leu His Leu Asn Ala Phe Val  
 1 5 10

<210> 833  
 <211> 716  
 <212> PRT  
 <213> Homo sapiens

<400> 833  
 Met Asn Asn Phe Arg Ala Thr Ile Leu Phe Trp Ala Ala Ala Ala Trp  
 1 5 10 15  
 Ala Lys Ser Gly Lys Pro Ser Gly Glu Met Asp Glu Val Gly Val Gln  
 20 25 30  
 Lys Cys Lys Asn Ala Leu Lys Leu Pro Val Leu Glu Val Leu Pro Gly  
 35 40 45  
 Gly Gly Trp Asp Asn Leu Arg Asn Val Asp Met Gly Arg Val Met Glu  
 50 55 60  
 Leu Thr Tyr Ser Asn Cys Arg Thr Thr Glu Asp Gly Gln Tyr Ile Ile  
 65 70 75 80  
 Pro Asp Glu Ile Phe Thr Ile Pro Gln Lys Gln Ser Asn Leu Glu Met  
 85 90 95  
 Asn Ser Glu Ile Leu Glu Ser Trp Ala Asn Tyr Gln Ser Ser Thr Ser  
 100 105 110  
 Tyr Ser Ile Asn Thr Glu Leu Ser Leu Phe Ser Lys Val Asn Gly Lys  
 115 120 125  
 Phe Ser Thr Glu Phe Gln Arg Met Lys Thr Leu Gln Val Lys Asp Gln  
 130 135 140  
 Ala Ile Thr Thr Arg Val Gln Val Arg Asn Leu Val Tyr Thr Val Lys  
 145 150 155 160  
 Ile Asn Pro Thr Leu Glu Leu Ser Ser Gly Phe Arg Lys Glu Leu Leu  
 165 170 175  
 Asp Ile Ser Asp Arg Leu Glu Asn Asn Gln Thr Arg Met Ala Thr Tyr  
 180 185 190  
 Leu Ala Glu Leu Leu Val Leu Asn Tyr Gly Thr His Val Thr Thr Ser  
 195 200 205

Val Asp Ala Gly Ala Ala Leu Ile Gln Glu Asp His Leu Arg Ala Ser  
 210 215 220  
 Phe Leu Gln Asp Ser Gln Ser Ser Arg Ser Ala Val Thr Ala Ser Ala  
 225 230 235 240  
 Gly Leu Ala Phe Gln Asn Thr Val Asn Phe Lys Phe Glu Glu Asn Tyr  
 245 250 255  
 Thr Ser Gln Asn Val Leu Thr Lys Ser Tyr Leu Ser Asn Arg Thr Asn  
 260 265 270  
 Ser Arg Val Gln Ser Ile Gly Gly Val Pro Phe Tyr Pro Gly Ile Thr  
 275 280 285  
 Leu Gln Ala Trp Gln Gln Gly Ile Thr Asn His Leu Val Ala Ile Asp  
 290 295 300  
 Arg Ser Gly Leu Pro Leu His Phe Phe Ile Asn Pro Asn Met Leu Pro  
 305 310 315 320  
 Asp Leu Pro Gly Pro Leu Val Lys Lys Val Ser Lys Thr Val Glu Thr  
 325 330 335  
 Ala Val Lys Arg Tyr Tyr Thr Phe Asn Thr Tyr Pro Gly Cys Thr Asp  
 340 345 350  
 Leu Asn Ser Pro Asn Phe Asn Phe Gln Ala Asn Thr Asp Asp Gly Ser  
 355 360 365  
 Cys Glu Gly Lys Met Thr Asn Phe Ser Phe Gly Gly Val Tyr Gln Glu  
 370 375 380  
 Cys Thr Gln Leu Ser Gly Asn Arg Asp Val Leu Leu Cys Gln Lys Leu  
 385 390 395 400  
 Glu Gln Lys Asn Pro Leu Thr Gly Asp Phe Ser Cys Pro Ser Gly Tyr  
 405 410 415  
 Ser Pro Val His Leu Leu Ser Gln Ile His Glu Glu Gly Tyr Asn His  
 420 425 430  
 Leu Glu Cys His Arg Lys Cys Thr Leu Leu Val Phe Cys Lys Thr Val  
 435 440 445  
 Cys Glu Asp Val Phe Gln Val Ala Lys Ala Glu Phe Arg Ala Phe Trp  
 450 455 460  
 Cys Val Ala Ser Ser Gln Val Pro Glu Asn Ser Gly Leu Leu Phe Gly  
 465 470 475 480  
 Gly Leu Phe Ser Ser Lys Ser Ile Asn Pro Met Thr Asn Ala Gln Ser  
 485 490 495  
 Cys Pro Ala Gly Tyr Phe Pro Leu Arg Leu Phe Glu Asn Leu Lys Val  
 500 505 510  
 Cys Val Ser Gln Asp Tyr Glu Leu Gly Ser Arg Phe Ala Val Pro Phe  
 515 520 525

Gly Gly Phe Phe Ser Cys Thr Val Gly Asn Pro Leu Val Asp Pro Ala  
 530 535 540  
 Ile Ser Arg Asp Leu Gly Ala Pro Ser Leu Lys Lys Cys Pro Gly Gly  
 545 550 555 560  
 Phe Ser Gln His Pro Ala Leu Ile Ser Asp Gly Cys Gln Val Ser Tyr  
 565 570 575  
 Cys Val Lys Ser Gly Leu Phe Thr Gly Gly Ser Leu Pro Pro Ala Arg  
 580 585 590  
 Leu Pro Pro Phe Thr Arg Pro Pro Leu Met Ser Gln Ala Ala Thr Asn  
 595 600 605  
 Thr Val Ile Val Thr Asn Ser Glu Asn Ala Arg Ser Trp Ile Lys Asp  
 610 615 620  
 Ser Gln Thr His Gln Trp Arg Leu Gly Glu Pro Ile Glu Leu Arg Arg  
 625 630 635 640  
 Ala Met Asn Val Ile His Gly Asp Gly Gly Gly Leu Ser Gly Gly Ala  
 645 650 655  
 Ala Ala Gly Val Thr Val Gly Val Thr Thr Ile Leu Ala Val Val Ile  
 660 665 670  
 Thr Leu Ala Ile Tyr Gly Thr Arg Lys Phe Lys Lys Lys Ala Tyr Gln  
 675 680 685  
 Ala Ile Glu Glu Arg Gln Ser Leu Val Pro Gly Thr Ala Ala Thr Gly  
 690 695 700  
 Asp Thr Thr Tyr Gln Glu Gln Gly Gln Ser Pro Ala  
 705 710 715

&lt;210&gt; 834

&lt;211&gt; 94

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 834

Leu Ala Val Ile Met Ala Arg Pro Ala Ala Glu Pro Leu Cys Phe Leu  
 1 5 10 15  
 Asn Pro Lys Leu Leu Ala Leu Ala Val Gly Val Leu Glu Leu Leu Gly  
 20 25 30  
 Arg Gly Phe Leu Asp Ser Ser Pro Leu Leu Arg Pro Ala Ser Asp Gly  
 35 40 45  
 Glu Arg Phe Thr Trp Glu Ala Leu Gly Glu Ser Leu Pro Phe Ser Asp  
 50 55 60  
 Thr Phe Ala Ser Ser Val Phe Pro Val Pro Gly Val Phe Ser Ala Pro  
 65 70 75 80  
 Ala Gly Ala Glu Ala Phe Val Leu Gly Met Val Met Pro Thr

85

90

&lt;210&gt; 835

&lt;211&gt; 39

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 835

Met His Leu Leu Pro Trp Arg Ala Ala Ala Pro Pro Leu Leu Ile  
1 5 10 15

Ala Val Pro Pro Arg Pro Ser Arg Ser Pro Val Gln Pro Pro Ser Leu  
20 25 30

Gly Ala Ala Asn Pro Ser Ala  
35

&lt;210&gt; 836

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 836

Pro Ser Ala Ala Ala Ser Ala Thr Pro  
1 5

&lt;210&gt; 837

&lt;211&gt; 63

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (12)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (16)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (20)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (23)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (25)



<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 837

Met His Leu Leu Pro Trp Arg Ala Ala Ala Xaa Pro Leu Leu Xaa  
1 5 10 15

Ala Val Pro Xaa Arg Ala Xaa Arg Xaa Pro Val Gln Ala Pro Ser Leu  
20 25 30

Gly Ala Xaa Asn Pro Xaa Arg Gly Thr Gln Val Ala Thr Val Ser Xaa  
35 40 45

Xaa Ser Gly Lys Leu Leu Gly Leu Lys Ala Pro Arg Pro Lys Pro  
50 55 60

<210> 838

<211> 84

<212> PRT

<213> Homo sapiens

<400> 838

Thr Tyr Ser Phe Cys Val Cys Glu Arg Ala Phe Val Phe Gly Ser Val  
1 5 10 15

Pro Arg Ala Glu Val Glu Gln Gly Cys Thr Tyr His Gly Lys Gly Gly  
20 25 30

Arg Lys Glu Asn Trp Ile Ala Cys Asp Leu Trp Trp Asn Leu Phe Leu  
35 40 45

Leu Pro Arg Pro Phe Arg Pro Cys Leu Ile Ser Val Gly His Phe Arg  
50 55 60

Leu Trp Gln Gly Arg Ala Gly Leu Gln Ser Glu Val Pro Ala Ser Ser  
65 70 75 80

Leu Glu His Asn

<210> 839  
 <211> 77  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (8)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (9)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (10)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (16)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 839  
 Leu Gly Gly Tyr Ala Leu Ser Xaa Xaa Xaa Asn Arg Val Thr Asp Xaa  
     1                    5                    10                    15  
 Val Met Ile Tyr Phe Phe Ile Ile Ile Val Glu Tyr Phe Tyr Gly Lys  
                     20                    25                    30  
 Ile Phe Val Val Leu Ile Ile Pro Ile Lys Ile Met Pro Asn Thr Lys  
                     35                    40                    45  
 Tyr Glu Phe Tyr Asp Val His Phe Val Leu Gly Ile Lys Arg Lys Lys  
                     50                    55                    60  
 His Thr Ser Trp Lys Ser Val Ser Cys Phe Leu Leu Leu  
     65                    70                    75

<210> 840  
 <211> 184  
 <212> PRT  
 <213> Homo sapiens

<400> 840  
 Met Ser Arg Thr Ala Tyr Thr Val Gly Ala Leu Leu Leu Leu Gly  
     1                    5                    10                    15  
 Thr Leu Leu Pro Ala Ala Glu Gly Lys Lys Lys Gly Ser Gln Gly Ala  
                     20                    25                    30  
 Ile Pro Pro Pro Asp Lys Ala Gln His Asn Asp Ser Glu Gln Thr Gln  
                     35                    40                    45

Ser Pro Gln Gln Pro Gly Ser Arg Asn Arg Gly Arg Gly Gln Gly Arg  
 50 55 60  
 Gly Thr Ala Met Pro Gly Glu Glu Val Leu Glu Ser Ser Gln Glu Ala  
 65 70 75 80  
 Leu His Val Thr Glu Arg Lys Tyr Leu Lys Arg Asp Trp Cys Lys Thr  
 85 90 95  
 Gln Pro Leu Lys Gln Thr Ile His Glu Glu Gly Cys Asn Ser Arg Thr  
 100 105 110  
 Ile Ile Asn Arg Phe Cys Tyr Gly Gln Cys Asn Ser Phe Tyr Ile Pro  
 115 120 125  
 Arg His Ile Arg Lys Glu Glu Gly Ser Phe Gln Ser Cys Ser Phe Cys  
 130 135 140  
 Lys Pro Lys Lys Phe Thr Thr Met Met Val Thr Leu Asn Cys Pro Glu  
 145 150 155 160  
 Leu Gln Pro Pro Thr Lys Lys Lys Arg Val Thr Arg Val Lys Gln Cys  
 165 170 175  
 Arg Cys Ile Ser Ile Asp Leu Asp  
 180

&lt;210&gt; 841

&lt;211&gt; 87

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (26)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 841

Xaa His Ser His Trp Glu Gly Leu Lys Leu Cys Cys Leu Asn Pro Val  
 1 5 10 15

Leu Gly Pro Ala Arg Lys Arg Lys Arg Xaa Leu Arg Asn Arg Gly Ala  
 20 25 30

Arg Gly Gly Cys Arg Cys His Ser Arg Ala Ala Leu His Pro His Pro  
 35 40 45

His Ala Ser Cys Phe Thr Ala His Ser Val Thr Glu Leu Val Ala Leu  
 50 55 60

Gly Thr Gly Gly His Pro His Thr Leu Met Pro Thr Ala Glu Gly Arg  
 65 70 75 80

Ala Thr His Pro Ser Arg Asp  
85

<210> 842

<211> 77

<212> PRT

<213> Homo sapiens

<400> 842

Phe Val Leu Leu His Cys Leu Asn Ser His Leu His Leu Ala Leu Gln  
1 5 10 15

Phe Pro Leu Asn Thr Leu Ser Ser Pro Leu Val Cys Cys Gln Ser Ala  
20 25 30

Ala Leu Pro Ile Lys Ala Cys Ile Asn Tyr Ile Cys Pro Met Phe Thr  
35 40 45

Phe Ile Lys His Phe Pro Cys Thr Pro Val Pro Thr Ser Gln Gln Thr  
50 55 60

Arg Glu Arg Ala Val Gln Leu Met Ser Leu Pro Ser Phe  
65 70 75

<210> 843

<211> 41

<212> PRT

<213> Homo sapiens

<400> 843

Met Ala Phe Pro Arg Val Gly Ala Phe Leu Phe Leu Ala Ser Leu Ser  
1 5 10 15

Ser Leu Leu His Cys Arg Leu Leu Ala Glu Ala Val Ser Gly Arg Ser  
20 25 30

Val Ser Leu Ala Pro Ser Ile Ile Arg  
35 40

<210> 844

<211> 164

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (95)

<223> Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 844

Arg Met Xaa Cys Ser Gln Pro Pro Arg Cys His Phe Gln Ser Asp Phe  
 1 5 10 15  
 Gln Lys Cys Ala Pro Cys Pro Arg Ala Gln Thr His Trp Leu Glu Pro  
 20 25 30  
 Pro Gly Arg Val Gln Thr Ile Ser Ser Met Arg Asn Ala Gln Lys Gly  
 35 40 45  
 Phe Ala Asp Ser Ile Arg Leu Trp Arg Leu Pro Ala Ser Gly Val Gly  
 50 55 60  
 Trp Val Val Ser Pro Pro Ile Gln Thr Gln Glu Val Ala Pro Glu Gly  
 65 70 75 80  
 Met Tyr Leu Val Gly Ser Ser Ser Gly Thr Leu Gly Gly Cys Xaa Ala  
 85 90 95  
 Leu Thr Gln Tyr Phe Ser Leu Ser Pro Leu Trp Gly Ala Cys Val Arg  
 100 105 110  
 Ala Arg Val Leu Ala Tyr Ala Phe Leu Cys Gly His Ile Arg Met Pro  
 115 120 125  
 Leu Gly Glu His Val His Val Ser Pro Pro Glu Arg Ala Cys Val Cys  
 130 135 140  
 Ala Pro Leu Arg Pro Arg Phe Gly Arg Leu Gly Phe Gly Val Pro Val  
 145 150 155 160  
 Phe Cys Pro Pro

&lt;210&gt; 845

&lt;211&gt; 80

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (25)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 845

Met Gly Thr Ser Thr Ala Trp Arg Val Pro Trp Arg Arg Trp Ala Arg  
 1 5 10 15  
 Val Arg Cys Trp Trp Leu Trp Pro Xaa Thr Gly Thr Ala Glu Pro Pro  
 20 25 30  
 Gly Thr Ala Gly Trp Gln Gly Leu Ala Gly Gly Arg Cys Arg Glu Ala  
 35 40 45  
 Trp Gly Ser Leu Leu Met Gly Met Phe Gly Leu Cys Phe Leu Pro Val  
 50 55 60

His Ser Gln Ser Cys Leu Ser Ser Ser Ser Ser Pro Thr Pro Arg Pro  
 65 70 75 80

<210> 846.

<211> 53

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 846

Ile Gly Pro Xaa Gly Pro Arg Asn Ser Xaa Thr Gly Gly Ala Phe Leu  
 1 5 10 15

Asp Phe Ser Ala Gln Ala Lys Lys Lys Lys Xaa Gln Phe Leu Lys Ile  
 20 25 30

Phe Phe Pro Gly Leu Cys Lys Ser Leu Ile Tyr Gly Ile Phe Val Met  
 35 40 45

Gln Arg Asn Thr Leu  
 50

<210> 847

<211> 50

<212> PRT

<213> Homo sapiens

<400> 847

Met Glu Glu Val Ala Phe Met Val Leu Lys Tyr Val Leu Pro Phe Leu  
 1 5 10 15

Lys Ser Leu Trp Leu His Val Tyr Leu Leu Ala Val Leu Trp Pro Arg  
 20 25 30

Leu Ala Ser Met Ile Ser Phe Gly Ser Arg Leu Phe Gln Ile Val Asp  
 35 40 45

Gly Ala  
 50

<210> 848  
 <211> 86  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (3)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (5)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (6)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 848  
 Lys Lys Xaa Pro Xaa Xaa Leu Ser Gly Ser Lys Ala Ile Ala Ser Lys  
   1                  5                  10                  15  
 Thr Lys Glu Ile Glu Gln Val Tyr Arg Gln Asp Cys Glu Thr Phe Gly  
                   20                  25                  30  
 Met Val Val Lys Met Leu Ile Glu Lys Asp Pro Ser Leu Glu Lys Ser  
           35                  40                  45  
 Ile Gln Phe Ala Leu Arg Gln Asn Leu His Glu Ile Gly Glu Arg Cys  
       50                  55                  60  
 Val Glu Glu Leu Lys His Phe Ile Ala Glu Tyr Asp Thr Ser Thr Gln  
   65                  70                  75                  80  
 Asp Phe Gly Glu Pro Phe  
                   85

<210> 849  
 <211> 129  
 <212> PRT  
 <213> Homo sapiens

<400> 849  
 Arg Lys Val Glu Gly Gly Ala Ser Gly Leu Asn Gly Phe Pro Asn His  
   1                  5                  10                  15  
 Pro Ser Ser Leu Gly Pro Ala Trp Phe Pro Pro Leu Pro Leu Pro Ser  
           20                  25                  30  
 Thr Leu Ser Arg Thr Gly Leu Met Lys Ala Leu Pro Lys Ile Ser Pro  
   35                  40                  45  
 Thr Pro Asn Phe Pro Leu Pro Pro Thr Phe Pro Thr Ser Ser Thr Thr

50                      55                      60  
 Leu Phe Gly Ala Thr Ala Gly Pro Glu Ala Gln Ser Ala Val Ser Gln  
 65                      70                      75                      80  
 Ala Phe Val His Leu Ser Pro Gln Ser Ile Ser Val Leu Gly Glu Ser  
                     85                      90                      95  
 His Thr Glu Thr Gln Glu His Pro Leu Pro Glu Leu Arg Glu Val Leu  
                     100                      105                      110  
 Ser Leu Arg Gly Gly Leu Ser Ala Val Cys Asn Asn Val Val Leu Phe  
                     115                      120                      125

Ile

<210> 850  
 <211> 48  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (45)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (46)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (48)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 850  
 Met Val Gln Arg Leu Trp Val Ser Arg Leu Leu Arg His Arg Lys Ala  
 1                      5                      10                      15

Gln Leu Leu Leu Val Asn Leu Leu Thr Phe Gly Leu Glu Val Cys Leu  
                     20                      25                      30

Ala Ala Gly Phe Thr Tyr Val Pro Leu Cys Cys Gly Xaa Xaa Val Xaa  
                     35                      40                      45

<210> 851  
 <211> 12  
 <212> PRT  
 <213> Homo sapiens

<400> 851



Ile Leu Gln Arg Arg Lys Gln Arg Leu Leu Arg Gly  
 1 5 10

<210> 852

<211> 371

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 852

Met Leu Phe Pro Ser Phe Ser Arg Ser Leu Val Pro Leu Pro His Ala  
 1 5 10 15

Leu Tyr Leu Xaa Gln Pro Leu Thr His Thr Thr Ser Leu Leu Ala Gly  
 20 25 30

Ile Gly Pro Val Leu Gly Leu Val Cys Val Pro Leu Leu Gly Ser Ala  
 35 40 45

Ser Asp His Trp Arg Gly Arg Tyr Gly Arg Arg Arg Pro Phe Ile Trp  
 50 55 60

Ala Leu Ser Leu Gly Ile Leu Leu Ser Leu Phe Leu Ile Pro Arg Ala  
 65 70 75 80

Gly Trp Leu Ala Gly Leu Leu Cys Pro Asp Pro Arg Pro Leu Glu Leu  
 85 90 95

Ala Leu Leu Ile Leu Gly Val Gly Leu Leu Asp Phe Cys Gly Gln Val  
 100 105 110

Cys Phe Thr Pro Leu Glu Ala Leu Leu Ser Asp Leu Phe Arg Asp Pro  
 115 120 125

Asp His Cys Arg Gln Ala Tyr Ser Val Tyr Ala Phe Met Ile Ser Leu  
 130 135 140

Gly Gly Cys Leu Gly Tyr Leu Leu Pro Ala Ile Asp Trp Asp Thr Ser  
 145 150 155 160

Ala Leu Ala Pro Tyr Leu Gly Thr Gln Glu Glu Cys Leu Phe Gly Leu  
 165 170 175

Leu Thr Leu Ile Phe Leu Thr Cys Val Ala Ala Thr Leu Leu Val Ala  
 180 185 190

Glu Glu Ala Ala Leu Gly Pro Thr Glu Pro Ala Glu Gly Leu Ser Ala  
 195 200 205

Pro Ser Leu Ser Pro His Cys Cys Pro Cys Arg Ala Arg Leu Ala Phe  
 210 215 220

Arg Asn Leu Gly Ala Leu Leu Pro Arg Leu His Gln Leu Cys Cys Arg  
 225 230 235 240

[illegible]

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<210> 853
<211> 75
<212> PRT
<213> Homo sapiens
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<400> 853
Met Gly Pro Leu Trp Gly Ala Pro Leu Arg Ala Trp Ala Ala Gly Ser
  1             5             10             15
Val Gly Cys Pro Cys Cys Leu Ser Cys Ala Ser Pro Ser Ser Ile Ser
          20             25             30
Ser Ala Gly Asp Pro Leu Ala Ser Cys Ser Thr Cys Gly Ser Thr Trp
          35             40             45
Glu Ile Pro Leu Thr Trp Met Thr Met Asp His Leu Leu Val Arg Tyr
  50             55             60
Tyr Leu Ser Gln Ala Arg Trp Cys Thr Thr Gly
  65             70             75

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```
<210> 854
<211> 57
<212> PRT
<213> Homo sapiens
```

<400> 854  
Ile Ser Tyr His His Val Lys Ala Ser His Leu Lys Ile Lys Ile Gln

```

1      5      10      15
Ile Ser Leu Lys Pro Glu Val Leu Val Pro Leu His Cys Leu Pro Leu
      20      25      30
Ser Pro Thr Pro Arg Glu Glu Ser Gly Gly Phe Leu Phe Ser Ile Ala
      35      40      45
Ile Ala Ala Val Gly Phe Leu Val Gln
      50      55

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```
<210> 855
<211> 10
<212> PRT
<213> Homo sapiens
```

<400> 855  
Trp Ala Ser Met Ser Ser Val Phe Gly Leu  
1 5 10

```
<210> 856
<211> 5
<212> PRT
<213> Homo sapiens
```

<400> 856  
Ser Phe Ala Thr Cys  
1 5

```
<210> 857
<211> 73
<212> PRT
<213> Homo sapiens.
```

<400> 857  
Met Trp Leu Pro Ala Trp Ala Ala Ile Glu Thr Phe Ser Thr Cys Ser  
1 5 10 15

Ser Leu Ser Leu Ser Phe Gln Pro Arg Trp Ala Leu Ala Ser Glu Gly  
20 25 30

Cys Ala Gly Ser Tyr Val Thr Thr His Arg Ala Leu Gly Ala His Leu  
35 40 45

Trp Pro Leu Trp Ser Asp Gln Phe Leu Gly Lys Gly Leu Gly Leu Arg  
50 55 60

Ile Pro Phe Ile Thr His Ala His Gln  
65 70

<210> 858  
<211> 36

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (17)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 858

Met Ala Gly Glu Glu Met Ala Trp Gly Ala Arg Leu Trp Ile Met Cys  
 1 5 10 15

Xaa Leu Leu Phe Leu Ala Ala Ser Glu Gly Ile Met Pro Arg Leu Arg  
 20 25 30

Ala Ser Ala Trp  
 35

&lt;210&gt; 859

&lt;211&gt; 352

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 859

Val Ser Leu Leu Leu Trp Gly Ile Ser Ile Arg Gly Ala Asp Ala Cys  
 1 5 10 15

Ala Asp Ala His Leu Phe Cys Lys Glu Cys Leu Ile Arg Tyr Ala Gln  
 20 25 30

Glu Ala Val Phe Gly Ser Gly Lys Leu Glu Leu Ser Cys Met Glu Gly  
 35 40 45

Ser Cys Thr Cys Ser Phe Pro Thr Ser Glu Leu Glu Lys Val Leu Pro  
 50 55 60

Gln Thr Ile Leu Tyr Lys Tyr Tyr Glu Arg Lys Ala Glu Glu Glu Val  
 65 70 75 80

Ala Ala Ala Tyr Ala Asp Glu Leu Val Arg Cys Pro Ser Cys Ser Phe  
 85 90 95

Pro Ala Leu Leu Asp Ser Asp Val Lys Arg Phe Ser Cys Pro Asn Pro  
 100 105 110

His Cys Arg Lys Glu Thr Cys Arg Lys Cys Gln Gly Leu Trp Lys Glu  
 115 120 125

His Asn Gly Leu Thr Cys Glu Glu Leu Ala Glu Lys Asp Asp Ile Lys  
 130 135 140

Tyr Arg Thr Ser Ile Glu Glu Lys Met Thr Ala Ala Arg Ile Arg Lys  
 145 150 155 160

Cys His Lys Cys Gly Thr Gly Leu Ile Lys Ser Glu Gly Cys Asn Arg  
 165 170 175

Met Ser Cys Arg Cys Gly Ala Gln Met Cys Tyr Leu Cys Arg Val Ser

180                                      185                                      190  
 Ile Asn Gly Tyr Asp His Phe Cys Gln His Pro Arg Ser Pro Gly Ala  
     195                                      200                                      205  
 Pro Cys Gln Glu Cys Ser Arg Cys Ser Leu Trp Thr Asp Pro Thr Glu  
     210                                      215                                      220  
 Asp Asp Glu Lys Leu Ile Glu Glu Ile Gln Lys Glu Ala Glu Glu Glu  
     225                                      230                                      235                                      240  
 Gln Lys Arg Lys Asn Gly Glu Asn Thr Phe Lys Arg Ile Gly Pro Pro  
                                     245                                      250                                      255  
 Leu Glu Lys Pro Val Glu Lys Val Gln Arg Val Glu Ala Leu Pro Arg  
                                     260                                      265                                      270  
 Pro Val Pro Gln Asn Leu Pro Gln Pro Gln Met Pro Pro Tyr Ala Phe  
                                     275                                      280                                      285  
 Ala His Pro Pro Phe Pro Leu Pro Pro Val Arg Pro Val Phe Asn Asn  
                                     290                                      295                                      300  
 Phe Pro Leu Asn Met Gly Pro Ile Pro Ala Pro Tyr Val Pro Pro Leu  
     305                                      310                                      315                                      320  
 Pro Asn Val Arg Val Asn Tyr Asp Phe Gly Pro Ile His Met Pro Leu  
                                     325                                      330                                      335  
 Glu His Asn Leu Pro Met His Phe Gly Pro Gln Pro Arg His Arg Phe  
                                     340                                      345                                      350

<210> 860  
 <211> 63  
 <212> PRT  
 <213> Homo sapiens

<400> 860  
 Met Ile Thr Phe Leu Pro Ile Ile Phe Ser Ile Leu Val Val Val Thr  
     1                                      5                                      10                                      15  
 Phe Val Ile Gly Asn Phe Ala Asn Gly Phe Ile Ala Leu Val Asn Ser  
                                     20                                      25                                      30  
 Thr Glu Trp Val Lys Arg Gln Lys Ile Ser Phe Ala Asp Gln Ile Val  
                                     35                                      40                                      45  
 Thr Ala Leu Ala Val Ser Arg Val Gly Leu Leu Trp Val Leu Leu  
                                     50                                      55                                      60

<210> 861  
 <211> 8  
 <212> PRT

<213> Homo sapiens

<400> 861

Leu Thr Met Leu Phe Asn Val Ile  
1 5

<210> 862

<211> 7

<212> PRT

<213> Homo sapiens

<400> 862

Thr Tyr Ile His Phe Leu Asp  
1 5

<210> 863

<211> 53

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 863

Thr Glu Glu Phe Lys Tyr Ala Val Ser Cys Asn Cys Gly Thr Ala Ala  
1 5 10 15

Trp Val Arg Val Arg Glu Arg Glu Arg Lys Arg Glu Lys Lys Lys  
20 25 30

Lys Arg Xaa Ala Ala Leu Glu Asp Pro Ser Arg Gly Pro Ser Leu Arg  
35 40 45

Val His Ala Thr Ser  
50

<210> 864

<211> 22

<212> PRT

<213> Homo sapiens

<400> 864

Leu Val Leu Phe Ile Thr Leu Leu Pro Gly Lys Leu Ala His Ser Trp  
1 5 10 15

His Thr Val Asn Val Gln  
20

<210> 865

<211> 2

<212> PRT  
 <213> Homo sapiens

<400> 865  
 Gly Cys  
 1

<210> 866  
 <211> 40  
 <212> PRT  
 <213> Homo sapiens

<400> 866  
 Met Ile Leu Tyr Ile Cys Leu Leu Leu Lys Ile Trp Gly Cys Ser Leu  
 1 5 10 15  
 Pro Cys Asn Phe Ser Phe Pro Leu Asp Leu Arg Lys Val Met Asp Phe  
 20 25 30  
 Gln Phe Val Gln His Phe Phe Leu  
 35 40

<210> 867  
 <211> 7  
 <212> PRT  
 <213> Homo sapiens

<400> 867  
 Ser Phe Cys Met Gly Thr Met  
 1 5

<210> 868  
 <211> 86  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (2)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (25)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 868  
 Ser Xaa Ile Val Gly Leu Ala Ile Trp Arg Gly Gly Leu Cys Gln Glu  
 1 5 10 15  
 Leu Pro Leu Glu Arg Phe Leu Leu Xaa Thr Val Phe Gly Ser Asp Leu  
 20 25 30  
 Ser Leu Leu Ser Gly Gly Asp Leu Cys Leu Glu Leu Leu Gly Gly Leu

35

40

45

Cys Leu Glu Val Cys Leu Arg Gly Asp Ile Cys Leu Gly Pro Leu Arg  
 50 55 60

Val Ser Val Ser Glu Leu Ser Leu Leu Cys Leu Ser Val Gln Gly Gln  
 65 70 75 80

Gln Lys Val Cys Pro Phe  
 85

&lt;210&gt; 869

&lt;211&gt; 33

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 869

Lys Ile Leu Val Ser Tyr Leu Met Pro Gly Met Met Arg Ile Glu Asn  
 1 5 10 15

Phe Ser Ile Phe Met Cys Leu Thr Gly Cys Leu Gly Ile Asn Phe Ala  
 20 25 30

Phe

&lt;210&gt; 870

&lt;211&gt; 288

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (87)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (99)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (230)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (263)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (264)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids.



&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (270)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (275)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 870

Met Ala Arg Ile Ser Phe Ser Tyr Leu Cys Pro Ala Ser Trp Tyr Phe  
 1 5 10 15

Thr Val Pro Thr Val Ser Pro Phe Leu Arg Gln Arg Val Ala Phe Leu  
 20 25 30

Gly Leu Phe Phe Ile Ser Cys Leu Leu Leu Leu Met Leu Ile Ile Asp  
 35 40 45

Phe Arg His Trp Ser Ala Ser Leu Pro Arg Asp Arg Gln Tyr Glu Arg  
 50 55 60

Tyr Leu Ala Arg Val Gly Glu Leu Glu Ala Thr Asp Thr Glu Asp Pro  
 65 70 75 80

Asn Leu Asn Tyr Gly Leu Xaa Val Asp Cys Gly Ser Ser Gly Ser Arg  
 85 90 95

Ile Phe Xaa Tyr Phe Trp Pro Arg His Asn Gly Asn Pro His Asp Leu  
 100 105 110

Leu Asp Ile Lys Gln Met Arg Asp Arg Asn Ser Gln Pro Val Val Lys  
 115 120 125

Lys Ile Lys Pro Gly Ile Ser Ala Met Ala Asp Thr Pro Glu His Ala  
 130 135 140

Ser Asp Tyr Leu Arg Pro Leu Leu Ser Phe Ala Ala Ala His Val Pro  
 145 150 155 160

Val Lys Lys His Lys Glu Thr Pro Leu Tyr Ile Leu Cys Thr Ala Gly  
 165 170 175

Met Arg Leu Leu Pro Glu Arg Lys Gln Leu Ala Ile Leu Ala Asp Leu  
 180 185 190

Val Lys Asp Leu Pro Leu Glu Phe Asp Phe Leu Phe Ser Gln Ser Gln  
 195 200 205

Ala Glu Val Ile Ser Gly Lys Gln Glu Gly Val Tyr Ala Trp Ile Gly  
 210 215 220

Ile Asn Phe Val Leu Xaa Arg Phe Asp His Glu Asp Glu Ser Asp Ala  
 225 230 235 240

Glu Ala Thr Gln Glu Leu Ala Ala Gly Arg Arg Arg Thr Val Gly Ile  
 245 250 255

Leu Asp Met Gly Gly Ala Xaa Xaa Gln Ile Ala Tyr Glu Xaa Pro Thr

260

265

270

Phe Pro Xaa Lys Lys Thr Pro Pro Leu Phe Pro Leu Leu Gly Gly Ile  
 275 280 285

&lt;210&gt; 871

&lt;211&gt; 107

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (66)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 871

Pro Leu Gly Arg Glu Pro Leu Ala Gly Phe Leu Ser Phe Leu Ser Phe  
 1 5 10 15

Ser Leu Leu Trp Cys Leu Glu Ala Phe Pro Arg Leu Gln Phe Leu Thr  
 20 25 30

Thr Leu Thr Asp Phe Ala Ile Val Leu Ser Pro Pro Leu Ser Phe Pro  
 35 40 45

Lys Leu Thr Leu Trp Arg Leu Ile Lys Arg Lys Asn His Arg Pro Gly  
 50 55 60

Ala Xaa Leu Thr Pro Arg Arg Arg Ala Asn His Leu Arg Cys Gly Val  
 65 70 75 80

Arg Asp Gln Pro Asp Gln Asn Arg Glu Thr Pro Ser Leu Leu Asn Asn  
 85 90 95

Thr Lys Leu Ala Gly Arg Gly Gly Ala Arg Leu  
 100 105

&lt;210&gt; 872

&lt;211&gt; 64

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (7)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (27)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 872

Ser Trp Val Ile Val Val Xaa Ile Trp Gly Tyr Leu Leu Glu Gly His  
 1 5 10 15  
 Gly Val Pro Phe Cys Lys Ser Tyr Gly Pro Xaa Pro Trp Lys Leu His  
 20 25 30  
 Thr His His Ala Ala Tyr Asn Ser Gly Ser Ser Gln Val Tyr Arg Ile  
 35 40 45  
 Leu Gly Asn Ser Pro Cys Pro Val Leu Ile His Cys Ser Phe Ser Gly  
 50 55 60

<210> 873

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 873

Trp Lys Gly Leu Leu Glu Gly Ser Xaa Glu Ala Thr Met Xaa  
 1 5 10

<210> 874

<211> 66..

<212> PRT

<213> Homo sapiens

<400> 874

Met Ser Trp Val Ile Val Val Ile Ile Trp Gly Tyr Leu Leu Glu Gly  
 1 5 10 15

His Gly Val Pro Phe Cys Lys Ser Tyr Gly Pro Ser Pro Trp Lys Leu  
 20 25 30

His Thr His His Ala Ala Tyr Asn Ser Gly Ser Ser Gln Val Tyr Arg  
 35 40 45

Ile Leu Glu Thr Leu Met Ser Gly Ser Thr His Cys Ser Phe Ser Gly  
 50 55 60

Thr Phe  
 65

<210> 875  
 <211> 90  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (31)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (57)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 875  
 Met Pro Arg Ala Pro Trp Arg Ile Pro Leu Cys Ala Leu Pro Thr Leu  
           1                  5                  10                  15  
 Cys Leu Gly Ser Pro Leu Pro Ser Gln Pro Thr His Pro Ile Xaa Tyr  
                   20                  25                  30  
 Asp His Arg Ala Pro Thr Trp Lys Met Ala His Pro Gly Gly Pro Arg  
           35                  40                  45  
 Ser Ser His Ser Pro Arg Thr Trp Xaa Thr Pro Ser Ser Gln Thr Lys  
           50                  55                  60  
 Ala Ala Leu Pro Ala Gly Gly Ala Arg Asn Ser Pro Leu Gln Leu Cys  
           65                  70                  75                  80  
 Thr Arg Ser Arg Phe Cys Gly Thr Pro Met  
                   85                  90

<210> 876  
 <211> 127  
 <212> PRT  
 <213> Homo sapiens

<400> 876  
 Met Pro Arg Ala Pro Trp Arg Ile Pro Leu Cys Ala Leu Pro Thr Leu  
           1                  5                  10                  15  
 Cys Leu Gly Ser Pro Leu Pro Ser Gln Pro Thr His Pro Ile Phe Tyr  
                   20                  25                  30  
 Asp His Arg Ala Pro Thr Trp Lys Met Ala His Pro Gly Gly Pro Arg  
           35                  40                  45  
 Ser Ser His Ser Pro Arg Gly Pro Gly Gly His Pro Ala Leu Arg Gln  
           50                  55                  60  
 Arg Leu Pro Cys Arg Arg Gly Glu Pro Glu Thr Ala Leu Cys Ser Ser  
           65                  70                  75                  80  
 Ala Pro Gly Ala Gly Phe Ala Glu Pro Pro Cys Lys Ala Ser Pro Gly  
                   85                  90                  95

Trp Gly Pro Pro Ser Arg Gly Pro Gln Gly Asp Arg Ser Gln Gly Glu  
                   100                                  105                                  110

Trp Leu Pro Ala Leu Gly Thr Pro Cys Gly Gly Pro Asp Asp Ser  
                   115                                  120                                  125

<210> 877

<211> 66

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 877

Met Ala Gly Gln Phe Arg Ser Tyr Val Trp Asp Pro Leu Leu Ile Leu  
       1                                  5                                  10                                  15

Ser Gln Ile Val Leu Met Gln Thr Val Tyr Tyr Gly Ser Leu Gly Leu  
                   20                                  25                                  30

Trp Leu Ala Leu Val Asp Gly Leu Val Arg Xaa Ala Pro Arg Trp Thr  
                   35                                  40                                  45

Arg Cys Ser Thr Pro Arg Ser Trp Ala Phe Pro Pro Leu Gln Ala Gly  
                   50                                  55                                  60

Ser Pro  
       65

<210> 878

<211> 124

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 878

Thr Gln Ile Pro Thr His Ile Ser Arg Tyr Thr Pro Leu His Ser Ser  
       1                                  5                                  10                                  15

Leu Gly Asn Arg Ala Arg Leu Arg Leu Lys Lys Xaa Lys Ile Lys Tyr  
                   20                                  25                                  30

Ala Tyr Leu Cys Pro Pro Ser Leu Lys Gln Leu Leu Asn Tyr Ala Val  
                   35                                  40                                  45

Ile Asn Gly Leu Ser Ser Ala Asn Tyr Phe Cys Leu Tyr Thr Lys Val  
                   50                                  55                                  60

Pro Gln Ala Met Leu Leu Leu Ala Ser Gly Leu Ser Ser Ala Phe Pro  
 65 70 75 80

Tyr Asp Ser Leu Gly Phe Thr Leu Ser Met Leu Leu Phe Phe Glu Arg  
 85 90 95

Asn Lys Ser Arg Val Glu Val Leu Ala Lys Glu Pro Ser Ala Pro Ser  
 100 105 110

Ser Tyr Trp Asp Ser Glu Asn Arg Gly Cys Gln Leu  
 115 120

<210> 879  
 <211> 39  
 <212> PRT  
 <213> Homo sapiens

<400> 879  
 Met Ala Gly Gln Phe Arg Ser Tyr Val Trp Asp Pro Leu Leu Ile Leu  
 1 5 10 15

Ser Gln Ser Ser Ser Cys Arg Pro Cys Ile Thr Ala Arg Trp Ala Cys  
 20 25 30

Gly Trp Arg Trp Trp Thr Gly  
 35

<210> 880  
 <211> 67  
 <212> PRT  
 <213> Homo sapiens

<400> 880  
 Met Ser Leu Cys Arg Ile Leu Gly Tyr Ser Phe Ser Ser Arg Leu Ser  
 1 5 10 15

Ser Leu Ile Leu Pro Leu Ala Val Phe His Tyr Cys Leu Ser Cys Pro  
 20 25 30

Leu His Phe Lys Leu Ser Phe Lys Tyr Leu Pro Phe Pro Ser Phe Pro  
 35 40 45

Phe Ser Ser Leu Pro Cys Pro Ala Leu Pro Cys Pro Ala Leu Pro Ser  
 50 55 60

Pro Pro Leu  
 65

<210> 881  
 <211> 86  
 <212> PRT  
 <213> Homo sapiens

<400> 881

Met Ser Leu Cys Arg Ile Leu Gly Tyr Ser Phe Ser Ser Arg Leu Ser  
 1 5 10 15  
 Ser Leu Ile Leu Pro Leu Ala Val Phe His Tyr Cys Leu Ser Cys Pro  
 20 25 30  
 Leu His Phe Lys Leu Ser Phe Lys Tyr Leu Pro Phe Pro Ser Phe Pro  
 35 40 45  
 Phe Ser Ser Leu Pro Cys Pro Ala Leu Pro Cys Pro Ala Leu Pro Ser  
 50 55 60  
 Pro Pro Leu Pro Cys Pro Pro Leu Pro Ser Pro Pro Leu Pro Leu Pro  
 65 70 75 80  
 Ser Leu Ser Phe Phe Arg  
 85

<210> 882  
 <211> 55  
 <212> PRT  
 <213> Homo sapiens

<400> 882  
 Met Cys Val Gly Leu Phe Leu Ser Ser Val Phe Phe His Ile Cys Val  
 1 5 10 15  
 His Pro Phe Ala Asn Ala Thr Leu Ser Cys Leu Leu Glu Ile Gly Lys  
 20 25 30  
 Leu Cys Glu Ser Phe Asn Phe Val Leu Phe Gln Ile Val Leu Ala Ile  
 35 40 45  
 Leu Val Pro Leu Thr Phe Ile  
 50 55

<210> 883  
 <211> 73  
 <212> PRT  
 <213> Homo sapiens

<400> 883  
 Thr Leu Phe Val Ser Tyr Gln Leu Ser Asn Pro Gln Tyr Ser Ser Phe  
 1 5 10 15  
 Ile Ser Gln Asn Arg Lys Leu Lys Gln Arg Glu Glu Lys Leu His Glu  
 20 25 30  
 Arg Phe Tyr Thr Ala Val Arg Ser Leu Asn Trp Ile Leu Asn Leu Ala  
 35 40 45  
 Phe Trp Leu Glu Ser Pro Ser Phe Tyr Gln Leu Cys Ile Ala Val Arg  
 50 55 60  
 Val Asp Ser Pro Trp Lys Gly Lys Ser  
 65 70

&lt;210&gt; 884

&lt;211&gt; 48

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (15)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (29)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 884

Met	Lys	Pro	Pro	Pro	Leu	Phe	Phe	Phe	Leu	Lys	Ile	Val	Leu	Xaa	Ile
1				5					10					15	

Trp	Gly	Pro	Leu	Trp	Phe	His	Met	Asn	Phe	Arg	Phe	Xaa	Phe	Ser	Ile
			20					25					30		

Ser	Met	Lys	Asn	Ala	Ile	Gly	Ile	Leu	Ile	Gly	Ile	Ala	Leu	Asn	Leu
		35					40						45		

&lt;210&gt; 885

&lt;211&gt; 48

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 885

Met	Lys	Pro	Pro	Pro	Leu	Phe	Phe	Phe	Leu	Lys	Ile	Val	Leu	Ala	Ile
1				5					10					15	

Trp	Gly	Pro	Leu	Trp	Phe	His	Met	Asn	Phe	Arg	Phe	Val	Phe	Ser	Ile
			20					25					30		

Ser	Met	Lys	Asn	Ala	Ile	Gly	Ile	Leu	Ile	Gly	Ile	Ala	Leu	Asn	Leu
		35					40						45		

&lt;210&gt; 886

&lt;211&gt; 214

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE



<222> (199)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (206)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (214)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <400> 886  
 Met Leu Gly Ala Arg Ala Trp Leu Gly Arg Val Leu Leu Leu Pro Arg  
     1                    5                    10                    15  
  
 Ala Gly Ala Gly Leu Ala Ala Ser Arg Arg Cys Pro Gly Val Trp Pro  
                     20                    25                    30  
  
 Arg Thr Trp Pro His Arg Ser Pro Ser Arg Gly Ser Ser Ser Arg Asp  
             35                    40                    45  
  
 Lys Asp Arg Ser Ala Thr Val Ser Ser Ser Val Pro Met Pro Ala Gly  
     50                    55                    60  
  
 Gly Lys Gly Ser His Pro Ser Ser Thr Pro Gln Arg Val Pro Asn Arg  
     65                    70                    75                    80  
  
 Leu Ile His Glu Lys Ser Pro Tyr Leu Leu Gln His Ala Tyr Asn Pro  
                     85                    90                    95  
  
 Val Asp Trp Tyr Pro Trp Gly Gln Glu Ala Phe Asp Lys Ala Arg Lys  
             100                    105                    110  
  
 Glu Asn Lys Pro Ile Phe Leu Ser Val Gly Tyr Ser Thr Cys His Trp  
     115                    120                    125  
  
 Cys His Met Met Glu Glu Glu Ser Phe Gln Asn Glu Glu Ile Gly Arg  
     130                    135                    140  
  
 Leu Leu Ser Glu Asp Phe Val Ser Val Lys Val Asp Arg Glu Glu Arg  
     145                    150                    155                    160  
  
 Pro Asp Val Asp Lys Val Tyr Met Thr Phe Val Gln Ala Thr Ser Ser  
             165                    170                    175  
  
 Gly Gly Gly Trp Pro Met Asn Val Trp Leu Thr Pro Asn Leu Gln Pro  
             180                    185                    190  
  
 Phe Val Gly Gly Thr Ile Xaa Leu Leu Lys Asp Gly Leu Xaa Arg Val  
     195                    200                    205  
  
 Gly Ser Ala Gln Cys Xaa  
     210

<210> 887

<211> 43

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 887

Met Leu Gly Ala Arg Ala Trp Leu Gly Arg Val Leu Leu Leu Pro Arg  
 1 5 10 15

Ala Gly Ala Gly Leu Ala Ala Ser Arg Arg Ser Ala Cys Ser Pro Thr  
 20 25 30

Ser Arg Leu Asn Ser Leu Arg Ser Leu Ile Pro  
 35 40

&lt;210&gt; 888

&lt;211&gt; 802

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 888

Met Leu Gly Ala Arg Ala Trp Leu Gly Arg Val Leu Leu Leu Pro Arg  
 1 5 10 15

Ala Gly Ala Gly Leu Ala Ala Ser Arg Arg Cys Pro Gly Val Trp Pro  
 20 25 30

Arg Thr Trp Pro His Arg Ser Pro Ser Arg Gly Ser Ser Ser Arg Asp  
 35 40 45

Lys Asp Arg Ser Ala Thr Val Ser Ser Ser Val Pro Met Pro Ala Gly  
 50 55 60

Gly Lys Gly Ser His Pro Ser Ser Thr Pro Gln Arg Val Pro Asn Arg  
 65 70 75 80

Leu Ile His Glu Lys Ser Pro Tyr Leu Leu Gln His Ala Tyr Asn Pro  
 85 90 95

Val Asp Trp Tyr Pro Trp Gly Gln Glu Ala Phe Asp Lys Ala Arg Lys  
 100 105 110

Glu Asn Lys Pro Ile Phe Leu Ser Val Gly Tyr Ser Thr Cys His Trp  
 115 120 125

Cys His Met Met Glu Glu Glu Ser Phe Gln Asn Glu Glu Ile Gly Arg  
 130 135 140

Leu Leu Ser Glu Asp Phe Val Ser Val Lys Val Asp Arg Glu Glu Arg  
 145 150 155 160

Pro Asp Val Asp Lys Val Tyr Met Thr Phe Val Gln Ala Thr Ser Ser  
 165 170 175

Gly Gly Gly Trp Pro Met Asn Val Trp Leu Thr Pro Asn Leu Gln Pro  
 180 185 190

Phe Val Gly Gly Thr Tyr Phe Pro Pro Glu Asp Gly Leu Thr Arg Val  
 195 200 205

Gly Phe Arg Thr Val Leu Leu Arg Ile Arg Glu Gln Trp Lys Gln Asn  
 210 215 220  
 Lys Asn Thr Leu Leu Glu Asn Ser Gln Arg Val Thr Thr Ala Leu Leu  
 225 230 235 240  
 Ala Arg Ser Glu Ile Ser Val Gly Asp Arg Gln Leu Pro Pro Ser Ala  
 245 250 255  
 Ala Thr Val Asn Asn Arg Cys Phe Gln Gln Leu Asp Glu Gly Tyr Asp  
 260 265 270  
 Glu Glu Tyr Gly Gly Phe Ala Glu Ala Pro Lys Phe Pro Thr Pro Val  
 275 280 285  
 Ile Leu Ser Phe Leu Phe Ser Tyr Trp Leu Ser His Arg Leu Thr Gln  
 290 295 300  
 Asp Gly Ser Arg Ala Gln Gln Met Ala Leu His Thr Leu Lys Met Met  
 305 310 315 320  
 Ala Asn Gly Gly Ile Arg Asp His Val Gly Gln Gly Phe His Arg Tyr  
 325 330 335  
 Ser Thr Asp Arg Gln Trp His Val Pro His Phe Glu Lys Met Leu Tyr  
 340 345 350  
 Asp Gln Ala Gln Leu Ala Val Ala Tyr Ser Gln Ala Phe Gln Leu Ser  
 355 360 365  
 Gly Asp Glu Phe Tyr Ser Asp Val Ala Lys Gly Ile Leu Gln Tyr Val  
 370 375 380  
 Ala Arg Ser Leu Ser His Arg Ser Gly Gly Phe Tyr Ser Ala Glu Asp  
 385 390 395 400  
 Ala Asp Ser Pro Pro Glu Arg Gly Gln Arg Pro Lys Glu Gly Ala Tyr  
 405 410 415  
 Tyr Val Trp Thr Val Lys Glu Val Gln Gln Leu Leu Pro Glu Pro Val  
 420 425 430  
 Leu Gly Ala Thr Glu Pro Leu Thr Ser Gly Gln Leu Leu Met Lys His  
 435 440 445  
 Tyr Gly Leu Thr Glu Ala Gly Asn Ile Ser Pro Ser Gln Asp Pro Lys  
 450 455 460  
 Gly Glu Leu Gln Gly Gln Asn Val Leu Thr Val Arg Tyr Ser Leu Glu  
 465 470 475 480  
 Leu Thr Ala Ala Arg Phe Gly Leu Asp Val Glu Ala Val Arg Thr Leu  
 485 490 495  
 Leu Asn Ser Gly Leu Glu Lys Leu Phe Gln Ala Arg Lys His Arg Pro  
 500 505 510  
 Lys Pro His Leu Asp Ser Lys Met Leu Ala Ala Trp Asn Gly Leu Met  
 515 520 525

Val Ser Gly Tyr Ala Val Thr Gly Ala Val Leu Gly Gln Asp Arg Leu  
 530 535 540  
 Ile Asn Tyr Ala Thr Asn Gly Ala Lys Phe Leu Lys Arg His Met Phe  
 545 550 555 560  
 Asp Val Ala Ser Gly Arg Leu Met Arg Thr Cys Tyr Thr Gly Pro Gly  
 565 570 575  
 Gly Thr Val Glu His Ser Asn Pro Pro Cys Trp Gly Phe Leu Glu Asp  
 580 585 590  
 Tyr Ala Phe Val Val Arg Gly Leu Leu Asp Leu Tyr Glu Ala Ser Gln  
 595 600 605  
 Glu Ser Ala Trp Leu Glu Trp Ala Leu Arg Leu Gln Asp Thr Gln Asp  
 610 615 620  
 Arg Leu Phe Trp Asp Ser Gln Gly Gly Gly Tyr Phe Cys Ser Glu Ala  
 625 630 635 640  
 Glu Leu Gly Ala Gly Leu Pro Leu Arg Leu Lys Asp Asp Gln Asp Gly  
 645 650 655  
 Ala Glu Pro Ser Ala Asn Ser Val Ser Ala His Asn Leu Leu Arg Leu  
 660 665 670  
 His Gly Phe Thr Gly His Lys Asp Trp Met Asp Lys Cys Val Cys Leu  
 675 680 685  
 Leu Thr Ala Phe Ser Glu Arg Met Arg Arg Val Pro Val Ala Leu Pro  
 690 695 700  
 Glu Met Val Arg Ala Leu Ser Ala Gln Gln Gln Thr Leu Lys Gln Ile  
 705 710 715 720  
 Val Ile Cys Gly Asp Arg Gln Ala Lys Asp Thr Lys Ala Leu Val Gln  
 725 730 735  
 Cys Val His Ser Val Tyr Ile Pro Asn Lys Val Leu Ile Leu Ala Asp  
 740 745 750  
 Gly Asp Pro Ser Ser Phe Leu Ser Arg Gln Leu Pro Phe Leu Ser Thr  
 755 760 765  
 Leu Arg Arg Leu Glu Asp Gln Ala Thr Ala Tyr Val Cys Glu Asn Gln  
 770 775 780  
 Ala Cys Ser Val Pro Ile Thr Asp Pro Cys Glu Leu Arg Lys Leu Leu  
 785 790 795 800  
 His Pro

&lt;210&gt; 889

&lt;211&gt; 98

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 889

Met His Cys Cys Gln Leu Pro Trp Arg Cys Ala Gln Ala Pro Gln Glu  
 1 5 10 15

Ala Phe Leu Leu Cys Leu Leu Phe Leu Ile Leu Val Leu Val Leu Leu  
 20 25 30

Gly Cys Ser Arg Gly Leu Pro Gly His Thr Pro Trp Arg Leu His Pro  
 35 40 45

Ala Ala Ala Ala Leu Leu Ala Pro Leu Leu His Asp Ala Leu Gly Ala  
 50 55 60

Cys Gly Phe Gln Gly Pro Glu Tyr Leu Leu Pro Cys Leu Leu Pro Leu  
 65 70 75 80

Pro Lys Pro Gly Gln Leu Gln Gly Pro Trp Gly Pro Leu Trp Ala Leu  
 85 90 95

Leu Pro

&lt;210&gt; 890

&lt;211&gt; 25

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (9)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 890

Cys Ala Val Arg Phe Arg Glu Gln Xaa Ala Pro Glu Arg Val Phe Leu  
 1 5 10 15

Pro Thr Arg Gly Arg Lys Ser Glu Pro  
 20 25

&lt;210&gt; 891

&lt;211&gt; 22

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 891

Leu Pro Arg Pro Cys Ala Pro Ser Pro Val Trp Arg Gln Val Gly Arg  
 1 5 10 15

Glu Glu Ala Ser Leu Leu  
 20

&lt;210&gt; 892

&lt;211&gt; 98

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 892

Met His Cys Cys Gln Leu Pro Trp Arg Cys Ala Gln Ala Pro Gln Glu  
 1 5 10 15

Ala Phe Leu Leu Cys Leu Leu Phe Leu Ile Leu Val Leu Val Leu Leu  
 20 25 30

Gly Cys Ser Arg Gly Leu Pro Gly His Thr Pro Trp Arg Leu His Pro  
 35 40 45

Ala Ala Ala Ala Leu Leu Ala Pro Leu Leu His Asp Ala Leu Gly Ala  
 50 55 60

Cys Gly Phe Gln Gly Pro Glu Tyr Leu Leu Pro Cys Leu Leu Pro Leu  
 65 70 75 80

Pro Lys Pro Gly Gln Leu Gln Gly Pro Trp Gly Pro Leu Trp Ala Leu  
 85 90 95

Leu Pro

&lt;210&gt; 893

&lt;211&gt; 99

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 893

Ser Lys Ser Asn Pro Lys Pro Arg Cys Gln Lys Gly Thr Pro Trp Val  
 1 5 10 15

Ile Arg Pro His Phe His Ser Asp Gly Val Ala Ser Ser Lys Thr Gly  
 20 25 30

Leu Thr Val Phe Gln Met Ser Gly Leu Gln Ala Pro Ile Pro Ser Arg  
 35 40 45

Cys Ser Ala Ala Ala Leu Ile Leu Arg Gly Gly Leu Pro Cys Thr Pro  
 50 55 60

Leu Glu Ala Phe His Trp Gly Asn Cys Leu Pro Gly Ser Ala Leu Arg  
 65 70 75 80

Ile Arg Ile Ala Lys Ala Gly Gln Ser Leu Pro Gln Gly Cys Ser Thr  
 85 90 95

Gly Gln Ala

&lt;210&gt; 894

&lt;211&gt; 89

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 894

Met Lys Pro Ala Thr Ala Ser Ala Leu Leu Leu Leu Leu Gly Leu  
 1 5 10 15

Ala Trp Thr Gln Gly Ser His Gly Trp Gly Ala Asp Ala Ser Ser Leu  
 20 25 30

Gln Lys Arg Ala Gly Arg Ala Asp Gln Val Ser Leu Cys Pro Gln Val  
 35 40 45

Thr Leu Gln Gly Pro Trp Ser Pro Leu Ala Leu Leu Pro Gly Leu Gly  
 50 55 60

Asn Leu Lys Phe Ser Phe Thr Pro Pro Phe Asn Gly Phe Leu Ser Arg  
 65 70 75 80

Val Gln Asp Gly Arg Arg Trp Gln Leu  
 85

&lt;210&gt; 895

&lt;211&gt; 73

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 895

Met Ala Gly Asn Ile Gln Ala Val Glu Thr Gly Tyr Val Leu Ile Cys  
 1 5 10 15

Leu Ile Val Pro Leu Leu Leu Cys Gly Leu Arg Glu Gly Gln Glu Val  
 20 25 30

Pro Phe Asp Val Asn Lys Ala Lys Tyr Leu Pro Thr Phe Leu Lys Lys  
 35 40 45

Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys  
 50 55 60

Lys Lys Lys Lys Lys Lys Lys Lys Lys Ile  
 65 70

&lt;210&gt; 896

&lt;211&gt; 72

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 896

Met Ala Gly Asn Ile Gln Ala Val Glu Thr Gly Tyr Val Leu Ile Cys  
 1 5 10 15

Leu Ile Val Pro Leu Leu Leu Cys Gly Leu Arg Glu Gly Gln Glu Val  
 20 25 30

Pro Phe Asp Val Asn Lys Ala Lys Tyr Leu Pro Thr Phe Leu Lys Lys  
 35 40 45

Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys  
 50 55 60

Lys Lys Lys Lys Lys Lys Lys Lys  
 65 70

<210> 897

<211> 29

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 897

Met Tyr Val Trp Val Ser Gly Ala Leu Val Leu Val Leu Ser Pro His  
 1 5 10 15

Pro Ala Ser Arg Thr Leu Cys Leu Met Xaa Gln Ala Xaa  
 20 25

<210> 898

<211> 80

<212> PRT

<213> Homo sapiens

<400> 898

Pro His Cys Ala Ser Arg Ala Val Pro Tyr Pro Pro Gly Pro Ala Ala  
 1 5 10 15

Ala Ala Phe Pro Arg Gln Gly Leu Gln Leu Ala Thr Thr Cys Gly His  
 20 25 30

Ser Ser Asp Pro Ala Cys Phe Gly Gln Cys Pro Cys His Leu Cys Ala  
 35 40 45

Asn His Pro Gly Tyr Leu Trp Ser Tyr Arg Val His Leu Ser Pro Gln  
 50 55 60

Pro His Leu His Pro Pro Gln His Leu Leu Pro Pro His Cys Thr Leu  
 65 70 75 80

<210> 899

<211> 29



&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 899

Met Tyr Val Trp Val Ser Gly Ala Leu Val Leu Val Leu Ser Pro His  
 1 5 10 15

Pro Ala Ser Arg Thr Leu Cys Leu Met Ala Gln Ala Val  
 20 25

&lt;210&gt; 900

&lt;211&gt; 53

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 900

Met Arg Ile Pro Val Phe Pro Lys Gln Leu Met Phe Thr Gly Leu Val  
 1 5 10 15

Phe Leu Leu Leu Leu Ser Lys Asp Glu Gly Ile His Asn Arg Leu Ser  
 20 25 30

Leu Glu Asn Thr Asn Asp Gly Gln Leu Phe Gly Val Ile Asn Glu Leu  
 35 40 45

Ala Thr Thr Leu Met  
 50

&lt;210&gt; 901

&lt;211&gt; 46

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 901

Met Arg Ile Pro Val Phe Pro Lys Gln Leu Met Phe Thr Gly Leu Val  
 1 5 10 15

Phe Leu Leu Leu Leu Ser Lys Asp Glu Gly Ile His Asn Arg Leu Ser  
 20 25 30

Leu Glu Asn Thr Asn Asp Gly Gln Leu Phe Gly Val Ile Lys  
 35 40 45

&lt;210&gt; 902

&lt;211&gt; 19

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (7)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (11)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 902

Met Pro Phe Thr Leu Gly Xaa Thr Arg Arg Xaa Arg Gly Leu Ala Lys  
 1 5 10 15

Lys Pro Lys

&lt;210&gt; 903

&lt;211&gt; 531

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 903

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Trp Cys Gln Asp Leu Gln Thr Ala Ala Arg Cys Gly Ala Val Gly Tyr  
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Cys Gln Gly Ala Val Trp Asn Lys Pro Thr Ala Lys Ser Leu Pro Cys  
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Asp Val Cys Gln Asp Ile Ala Ala Ala Ala Gly Asn Gly Leu Asn Pro  
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Asp Ala Thr Glu Ser Asp Ile Leu Ala Leu Val Met Lys Thr Cys Glu  
 85 90 95

Trp Leu Pro Ser Gln Glu Ser Ser Ala Gly Cys Lys Trp Met Val Asp  
 100 105 110

Ala His Ser Ser Ala Ile Leu Ser Met Leu Arg Gly Ala Pro Asp Ser  
 115 120 125

Ala Pro Ala Gln Val Cys Thr Ala Leu Ser Leu Cys Glu Pro Leu Gln  
 130 135 140

Arg His Leu Ala Thr Leu Arg Pro Leu Ser Lys Glu Asp Thr Phe Glu  
 145 150 155 160

Ala Val Ala Pro Phe Met Ala Asn Gly Pro Leu Thr Phe His Pro Arg  
 165 170 175

Gln Ala Pro Glu Gly Ala Leu Cys Gln Asp Cys Val Arg Gln Val Ser  
 180 185 190

Arg Leu Gln Glu Ala Val Arg Ser Asn Leu Thr Leu Ala Asp Leu Asn  
 195 200 205

Ile Gln Glu Gln Cys Glu Ser Leu Gly Pro Gly Leu Ala Val Leu Cys  
 210 215 220

Lys Asn Tyr Leu Phe Gln Phe Phe Val Pro Ala Asp Gln Ala Leu Arg  
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 Leu Leu Pro Pro Gln Glu Leu Cys Arg Lys Gly Gly Phe Cys Glu Glu  
 245 250 255  
 Leu Gly Ala Pro Ala Arg Leu Thr Gln Val Val Ala Met Asp Gly Val  
 260 265 270  
 Pro Ser Leu Glu Leu Gly Leu Pro Arg Lys Gln Ser Glu Met Gln Met  
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 Lys Ala Gly Val Thr Cys Glu Val Cys Met Asn Val Val Gln Lys Leu  
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 Asp His Trp Leu Met Ser Asn Ser Ser Glu Leu Met Ile Thr His Ala  
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 325 330 335  
 Ile Ile Leu Val Asp Thr Tyr Ser Pro Ser Leu Val Gln Leu Val Ala  
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 Lys Ile Thr Pro Glu Lys Val Cys Lys Phe Ile Arg Leu Cys Gly Asn  
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 Arg Arg Arg Ala Arg Ala Val His Asp Ala Tyr Ala Ile Val Pro Ser  
 370 375 380  
 Pro Glu Trp Asp Ala Glu Asn Gln Gly Ser Phe Cys Asn Gly Cys Lys  
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 Arg Asp Ile Leu Val Ala Phe Lys Gly Gly Cys Ser Ile Leu Pro Leu  
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 Pro Tyr Met Ile Gln Cys Lys His Phe Val Thr Gln Tyr Glu Pro Val  
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 Leu Ile Glu Ser Leu Lys Asp Met Met Asp Pro Val Ala Val Cys Lys  
 450 455 460  
 Lys Val Gly Ala Cys His Gly Pro Arg Thr Pro Leu Leu Gly Thr Asp  
 465 470 475 480  
 Gln Cys Ala Leu Gly Pro Ser Phe Trp Cys Arg Ser Gln Glu Ala Ala  
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 Val Leu Asn Phe Ala Thr Asn Arg Asp Asp Phe Val Gln Ile Gly Lys  
                     35                    40                    45  
 Gly Pro Thr Asn Asn Thr Cys Val Val Arg Thr Val Ser Val Gly Leu  
                     50                    55                    60  
 Thr Leu Leu Arg Val Trp Asp Ala Glu His Pro Gly Leu Ser Asp Phe  
     65                    70                    75                    80  
 Met Pro Leu Pro Val Leu Gln Ala Ile Ser Pro Glu Leu Ser Gly Ala  
                     85                    90                    95  
 Met Val Val Gly Asp Val Leu Cys Leu Ala Thr Val Leu Thr Ser Leu  
                     100                    105                    110  
 Glu Gly Leu Ser Gly Thr Trp Ser Ser Ser Ala Asn Ser Ile Leu His  
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 Ile Asp Pro Lys Thr Gly Val Ala Val Ala Arg Ala Val Gly Ser Val  
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 Thr Val Tyr Tyr Glu Val Ala Gly His Leu Arg Thr Tyr Lys Glu Val  
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 Val Val Ser Val Pro Gln Arg Ile Met Ala Arg His Leu His Pro Ile  
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 Gln Thr Ser Phe Gln Glu Ala Thr Ala Ser Lys Val Ile Val Ala Val  
                     180                    185                    190

Gly Asp Arg Ser Ser Asn Leu Arg Gly Glu Cys Thr Pro Thr Gln Arg  
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 Glu Val Ile Gln Ala Leu His Pro Glu Thr Leu Ile Ser Cys Gln Ser  
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 Gln Phe Lys Pro Ala Val Phe Asp Phe Pro Ser Gln Asp Val Phe Thr  
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 Val Glu Pro Gln Phe Asp Thr Ala Leu Gly Gln Tyr Phe Cys Ser Ile  
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 Thr Met His Arg Leu Thr Asp Lys Gln Arg Lys His Leu Ser Met Lys  
 260 265 270  
 Lys Thr Ala Leu Val Val Ser Ala Ser Leu Ser Ser Ser His Phe Ser  
 275 280 285  
 Thr Glu Gln Val Gly Ala Glu Val Pro Phe Ser Pro Gly Leu Phe Ala  
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 Asp Gln Ala Glu Ile Leu Leu Ser Asn His Tyr Thr Ser Ser Glu Ile  
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 Arg Val Phe Gly Ala Pro Glu Val Leu Glu Asn Leu Glu Val Lys Ser  
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 Gly Ser Pro Ala Val Leu Ala Phe Ala Lys Glu Lys Ser Phe Gly Trp  
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 Ser Gln Gly Pro Leu Ser Thr Thr Leu Thr Phe Ser Ser Pro Val Thr  
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 Arg Gly Pro Gly Pro Tyr Gly Ala Ser Leu Phe Gln His Phe Leu Asp  
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 Ser Tyr Gln Val Met Phe Phe Thr Leu Phe Ala Leu Leu Ala Gly Thr  
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 Ala Val Met Ile Ile Ala Tyr His Thr Val Cys Thr Pro Arg Asp Leu  
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 Ala Val Pro Ala Ala Leu Thr Pro Arg Ala Ser Pro Gly His Ser Pro  
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Val Leu Leu Pro Phe Thr Arg Ala Thr Arg Val Asn Phe Thr Leu Glu  
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Ala Ser Glu Gly Cys Tyr Arg Trp Leu Ser Thr Arg Pro Glu Val Ala  
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Ser Ile Glu Pro Leu Gly Leu Asp Glu Gln Gln Cys Ser Gln Lys Ala  
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Val Val Gln Ala Arg Leu Thr Gln Pro Ala Arg Leu Thr Ser Ile Ile  
                     85                    90                    95

Phe Ala Glu Asp Ile Thr Thr Gly Gln Val Leu Arg Cys Asp Ala Ile  
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Val Asp Leu Ile His Asp Ile Gln Ile Val Ser Thr Thr Arg Glu Leu  
                     115                    120                    125

Tyr Leu Glu Asp Ser Pro Leu Glu Leu Lys Ile Gln Ala Leu Asp Ser  
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 Leu Arg Ile Leu Thr Phe Leu Glu Ser Thr Tyr Ile Pro Pro Ser Tyr  
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 Ile Ser Glu Met Glu Lys Ala Ala Lys Gln Gly Asp Thr Ile Leu Val  
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 Ser Gly Met Lys Thr Gly Ser Xaa Lys Leu Lys Ala Arg Ile Gln Glu  
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 Thr Ile Glu Val Phe Asp Lys Phe Ser Asn Lys Val Tyr Val Ser Asp  
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 Gly Gly Val His Ile Leu Gln Val Pro Val Trp Asn Gln Gln Glu Val  
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 Glu Ile His Ile Pro Ile Thr Leu Tyr Pro Ser Ile Leu Thr Phe Pro  
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Trp Gln Pro Lys Thr Gly Ala Tyr Gln Tyr Thr Ile Arg Ala His Gly  
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 Ser His Phe Asp Leu Ala Val Glu Val Glu Asn Gln Gly Val Phe Gln  
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 Arg Val Lys Ala Glu Ala Gln Gly Ser Thr Thr Leu Leu Val Ser Tyr  
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 Arg His Gly His Val His Leu Ser Ala Lys Ile Thr Ile Ala Ala Tyr  
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 Leu Pro Leu Lys Ala Val Asp Pro Ser Ser Val Ala Leu Val Thr Leu  
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 Ser Ile Gly Leu Ala Leu Phe Ala Pro His Ser Ser Arg Asn Tyr Gln  
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09/756,168	09-Jan-01

Furthermore, the contents and sequence listings of Application Nos. 09/091,873 filed June 25, 1998; 60/229,358 filed on April 12, 2000; 60/199,384 filed on April 25, 2000 and 60/256,931 filed on December 21, 2000 are hereby incorporated by reference

5 in their entirety.

**What is claimed:**

1. An albumin fusion protein comprising a Therapeutic protein:X and albumin comprising the amino acid sequence of SEQ ID NO:18.
2. An albumin fusion protein comprising a Therapeutic protein:X and a fragment or a variant of the amino acid sequence of SEQ ID NO:18, wherein said fragment or variant has albumin activity.
3. The albumin fusion protein of claim 2, wherein said albumin activity is the ability to prolong the shelf life of the Therapeutic protein:X compared to the shelf-life of the Therapeutic protein:X in an unfused state.
4. The albumin fusion protein of claim 2, wherein the fragment or variant comprises the amino acid sequence of amino acids 1-387 of SEQ ID NO:18.
5. An albumin fusion protein comprising a fragment or variant of a Therapeutic protein:X, and albumin comprising the amino acid sequence of SEQ ID NO:18, wherein said fragment or variant has a biological activity of the Therapeutic protein:X.
6. The albumin fusion protein of any one of claims 1-5, wherein the Therapeutic protein:X, or fragment or variant thereof, is fused to the N-terminus of albumin, or the N-terminus of the fragment or variant of albumin.
7. The albumin fusion protein of any one of claims 1-5, wherein the Therapeutic protein:X, or fragment or variant thereof, is fused to the C-terminus of albumin, or the C-terminus of the fragment or variant of albumin.
8. The albumin fusion protein of any one of claims 1-5, wherein the Therapeutic protein:X, or fragment or variant thereof, is fused to the N-terminus and C-terminus of albumin, or the N-terminus and the C-terminus of the fragment or variant of albumin.

9. The albumin fusion protein of any one of claims 1-5, which comprises a first Therapeutic protein:X, or fragment or variant thereof, and a second Therapeutic protein:X, or fragment or variant thereof, wherein said first Therapeutic protein:X, or fragment or variant thereof, is different from said second Therapeutic protein:X, or fragment or variant thereof.

10. The albumin fusion protein of any one of claims 1-8, wherein the Therapeutic protein:X, or fragment or variant thereof, is separated from the albumin or the fragment or variant of albumin by a linker.

11. The albumin fusion protein of any one of claims 1-8, wherein the albumin fusion protein has the following formula:

R1-L-R2; R2-L-R1; or R1-L-R2-L-R1,

wherein R1 is Therapeutic protein:X, or fragment or variant thereof, L is a peptide linker, and R2 is albumin comprising the amino acid sequence of SEQ ID NO:18 or fragment or variant of albumin.

12. The albumin fusion protein of any one of claims 1-11, wherein the shelf-life of the albumin fusion protein is greater than the shelf-life of the Therapeutic protein:X in an unfused state.

13. The albumin fusion protein of any one of claims 1-11, wherein the in vitro biological activity of the Therapeutic protein:X, or fragment or variant thereof, fused to albumin, or fragment or variant thereof, is greater than the in vitro biological activity of the Therapeutic protein:X, or a fragment or variant thereof, in an unfused state.

14. The albumin fusion protein of any one of claims 1-11, wherein the in vivo biological activity of the Therapeutic protein:X, or fragment or variant thereof, fused to albumin, or fragment or variant thereof, is greater than the in vivo biological activity of the Therapeutic protein:X, or a fragment or variant thereof, in an unfused state.

15. An albumin fusion protein comprising a Therapeutic protein:X, or fragment or variant thereof, inserted into an albumin comprising the amino acid sequence of SEQ ID NO:18 or fragment or variant thereof.

16. An albumin fusion protein comprising a Therapeutic protein:X, or fragment or variant thereof, inserted into an albumin comprising an amino acid sequence selected from the group consisting of:

- (a) amino acids 54 to 61 of SEQ ID NO:18;
- (b) amino acids 76 to 89 of SEQ ID NO:18;
- (c) amino acids 92 to 100 of SEQ ID NO:18;
- (d) amino acids 170 to 176 of SEQ ID NO:18;
- (e) amino acids 247 to 252 of SEQ ID NO:18;
- (f) amino acids 266 to 277 of SEQ ID NO:18;
- (g) amino acids 280 to 288 of SEQ ID NO:18;
- (h) amino acids 362 to 368 of SEQ ID NO:18;
- (i) amino acids 439 to 447 of SEQ ID NO:18;
- (j) amino acids 462 to 475 of SEQ ID NO:18;
- (k) amino acids 478 to 486 of SEQ ID NO:18; and
- (l) amino acids 560 to 566 of SEQ ID NO:18.

17. The albumin fusion protein of claims 15 or 16, wherein said albumin fusion protein comprises a portion of albumin sufficient to prolong the shelf-life of the Therapeutic protein:X, or fragment or variant thereof, as compared to the shelf-life of the Therapeutic protein:X, or a fragment or variant thereof, in an unfused state.

18. The albumin fusion protein of claims 15 or 16, wherein said albumin fusion protein comprises a portion of albumin sufficient to prolong the in vitro biological activity of the Therapeutic protein:X, or fragment or variant thereof, fused to albumin as compared to the in vitro biological activity of the Therapeutic protein:X, or a fragment or variant thereof, in an unfused state.

19. The albumin fusion protein of claims 15 or 16 wherein said albumin fusion protein comprises a portion of albumin sufficient to prolong the in vivo biological activity



of the Therapeutic protein:X, or fragment or variant thereof, fused to albumin compared to the in vivo biological activity of the Therapeutic protein:X , or a fragment or variant thereof, in an unfused state.

20. The albumin fusion protein of any one of claims 1-19, which is non-glycosylated.

21. The albumin fusion protein of any one of claims 1-19, which is expressed in yeast.

22. The albumin fusion protein of claim 21, wherein the yeast is glycosylation deficient.

23. The albumin fusion protein of claim 21 wherein the yeast is glycosylation and protease deficient.

24. The albumin fusion protein of any one of claims 1-19, which is expressed by a mammalian cell.

25. The albumin fusion protein of any one of claims 1-19, wherein the albumin fusion protein is expressed by a mammalian cell in culture.

26. The albumin fusion protein of any one of claims 1-19, wherein the albumin fusion protein further comprises a secretion leader sequence.

27. A composition comprising the albumin fusion protein of any one of claims 1-26 and a pharmaceutically acceptable carrier.

28. A kit comprising the composition of claim 27.

29. A method of treating a disease or disorder in a patient, comprising the step of administering the albumin fusion protein of any one of claims 1-26.

30. The method of claim 29, wherein the disease or disorder comprises indication:Y.

31. A method of treating a patient with a disease or disorder that is modulated by Therapeutic protein:X, or fragment or variant thereof, comprising the step of administering an effective amount of the albumin fusion protein of any one of claims 1-26.

32. The method of claim 31, wherein the disease or disorder is indication:Y.

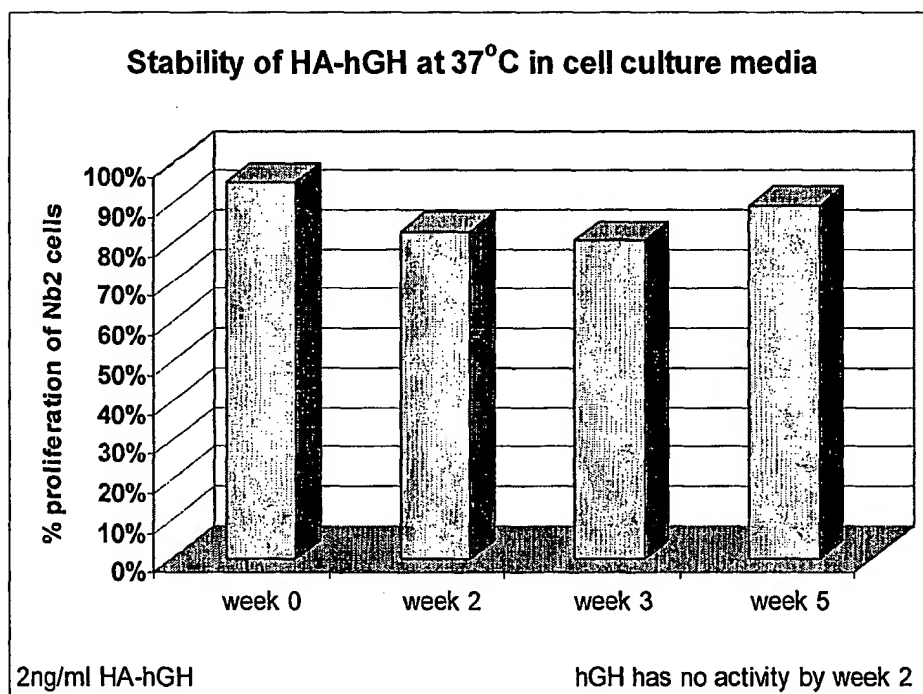
33. A method of extending the shelf life of Therapeutic protein:X comprising the step of fusing the Therapeutic protein:X, or fragment or variant thereof, to albumin or a fragment or variant thereof, sufficient to extend the shelf-life of the Therapeutic protein:X, or fragment or variant thereof, compared to the shelf-life of the Therapeutic protein:X, or a fragment or variant thereof, in an unfused state.

34. A nucleic acid molecule comprising a polynucleotide sequence encoding the albumin fusion protein of any one of claims 1-26.

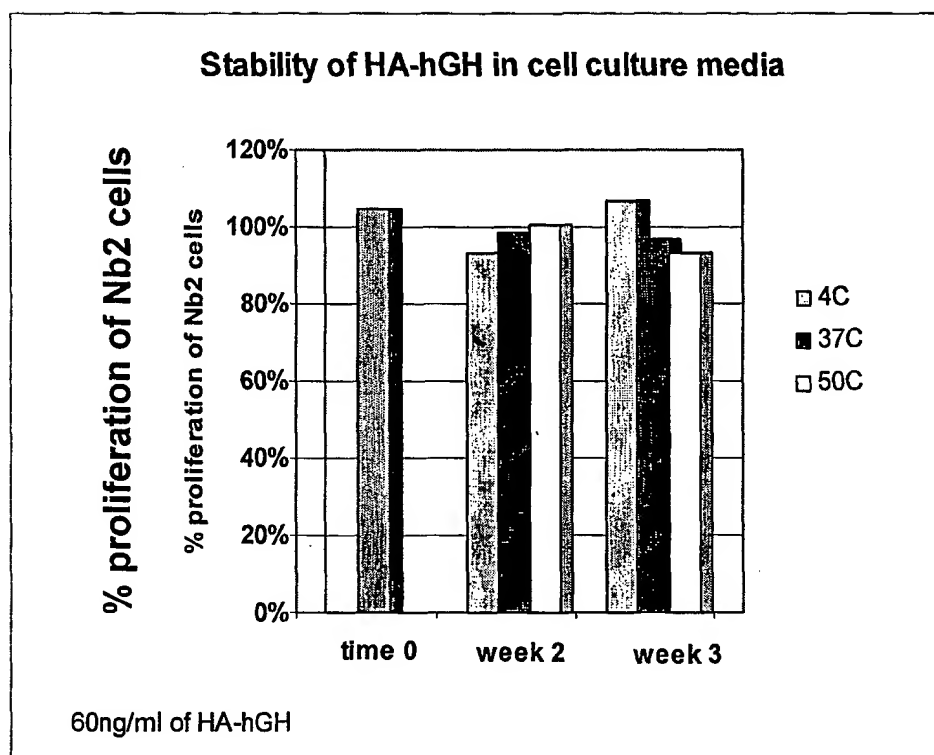
35. A vector comprising the nucleic acid molecule of claim 34.

36. A host cell comprising the nucleic acid molecule of claim 35.

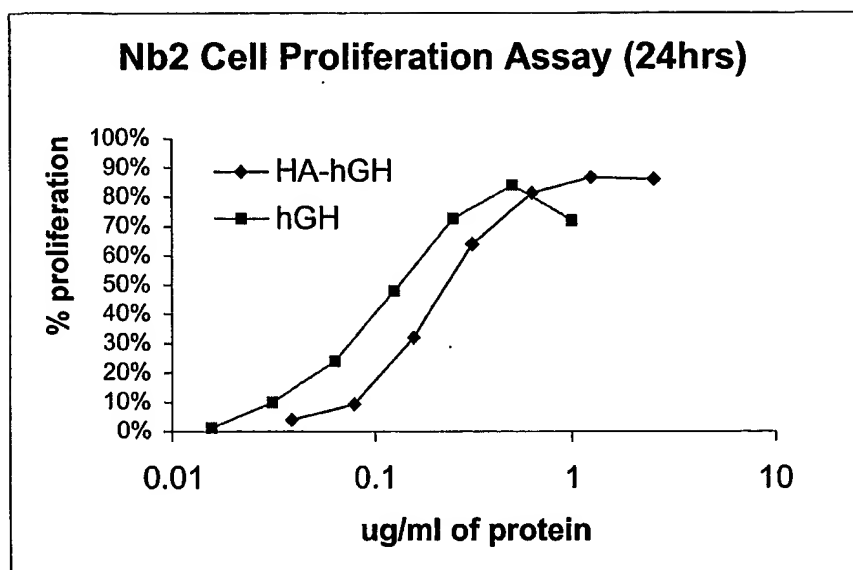
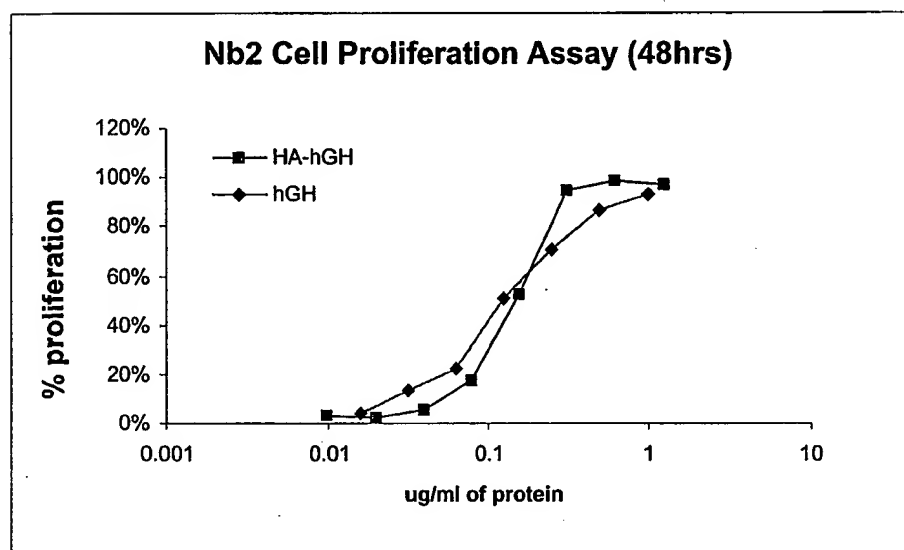
1/20

**Figure 1**

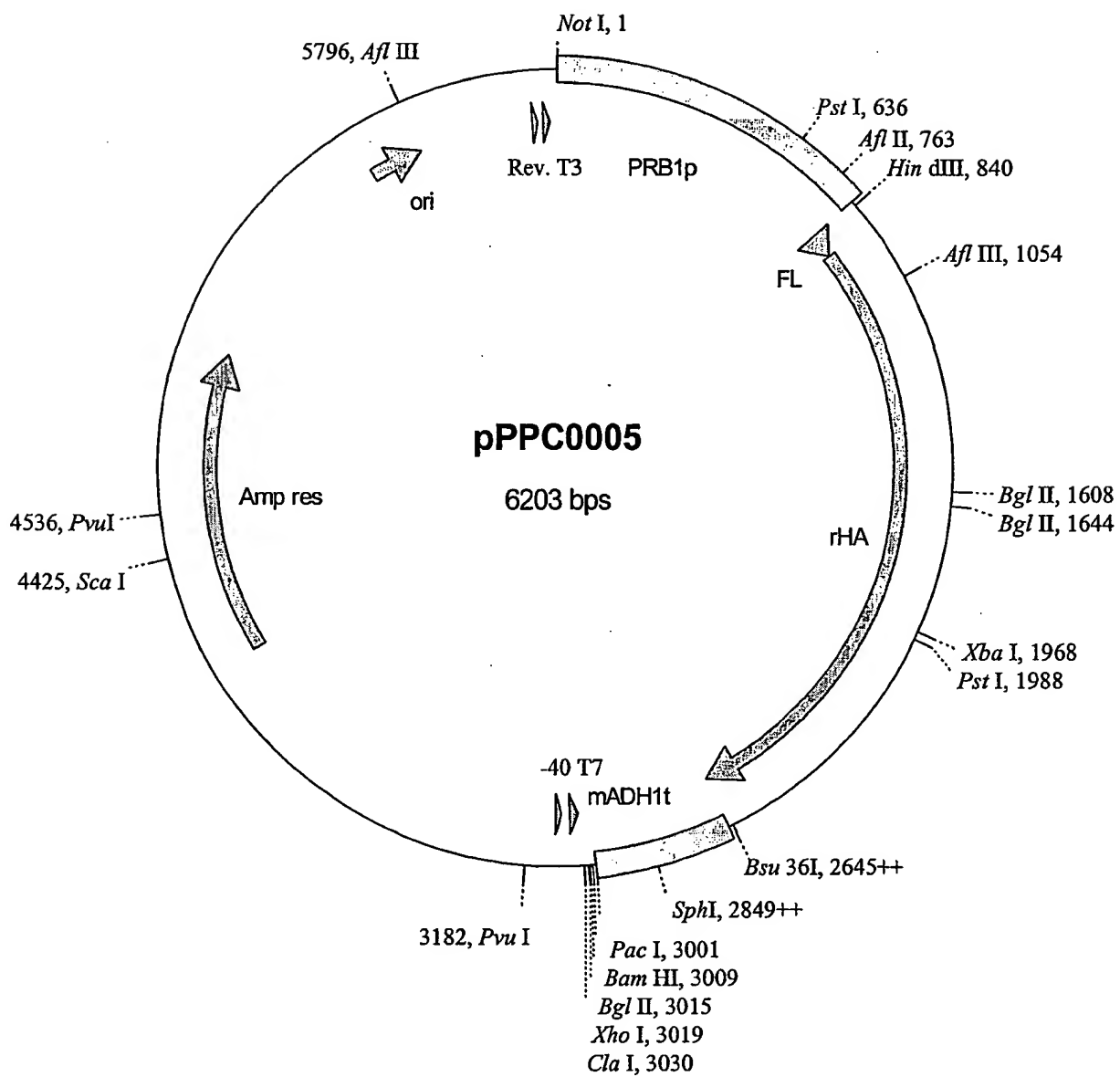
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**Figure 2**

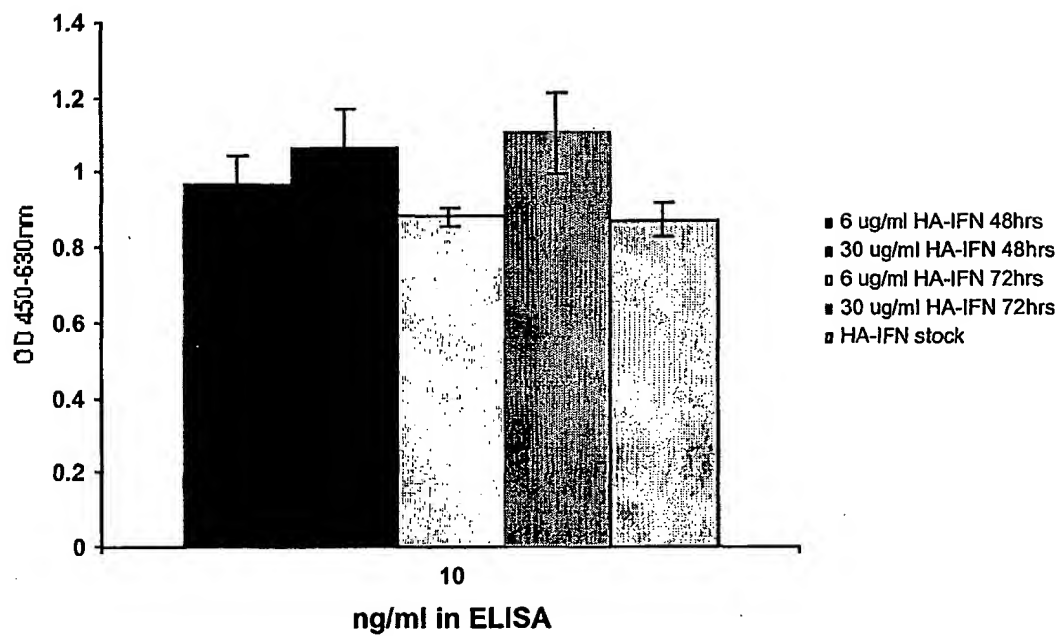
3/20

**Figure 3A****Figure 3B**

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**Figure 4**

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**Figure 5**

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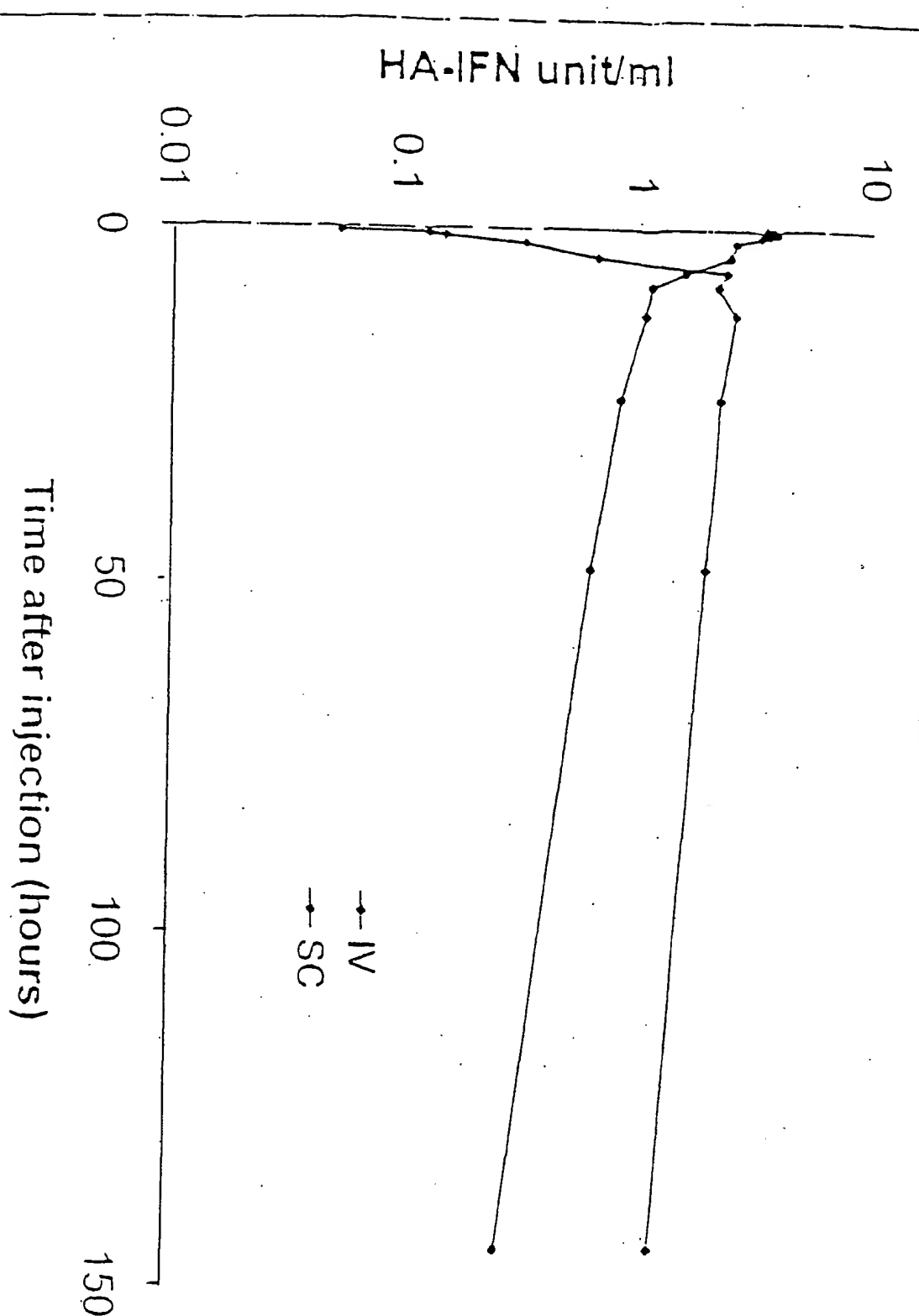


Figure 6



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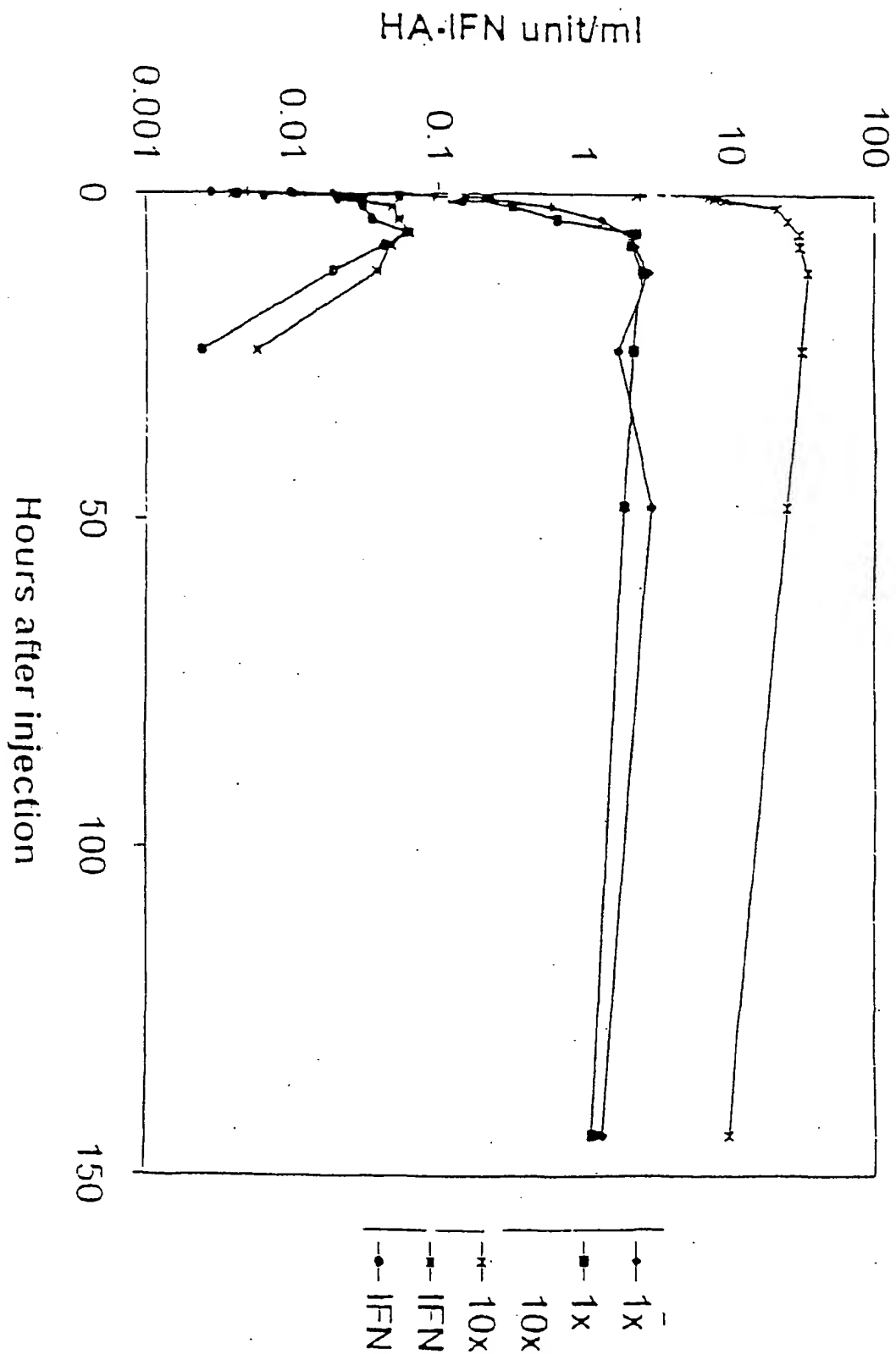
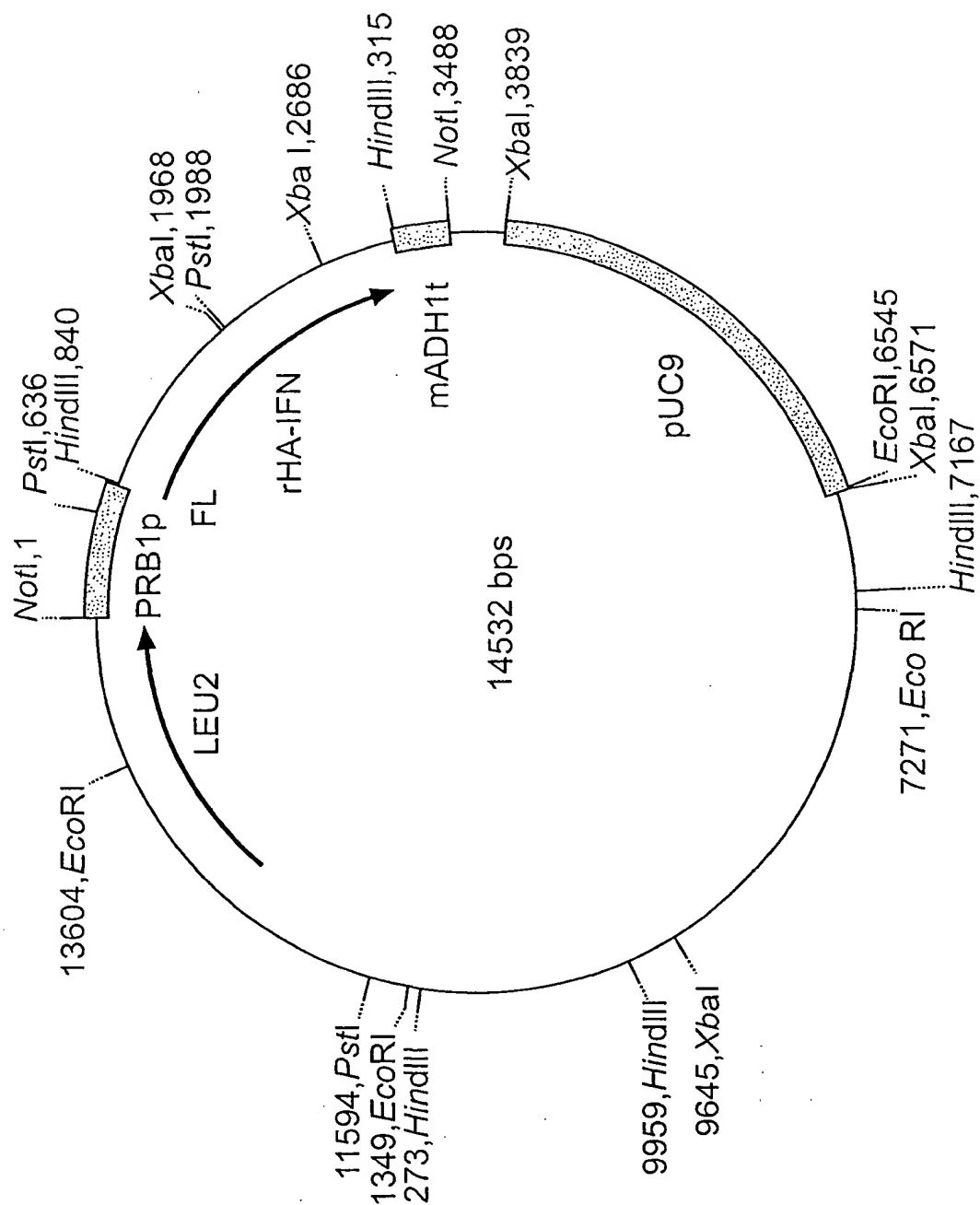


Figure 7

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**FIG. 8**

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Localisation of 'Loops' based on the HA Crystal Structure  
which could be used for Mutation/Insertion

1	DAHKSEVAHR	FKDLGEENFK	ALVLIAFAQY	LQQCPFEDHV	KLVNEVTEFA
	HHHHH	HHH	HHHHHHHHHH	HHHHH	HHHHHHHHHH
	<b>I</b>		<b>II</b>		<b>III</b>
51	KTCVADESAE	NCDKSLHTLF	GDKLCTVATL	RETYGEMADC	CAKOEPEPNE
	HHHHH	HHHHH	HHHHH	HHHH	H HHHH
101	CFLQHKDDNP	NLPRLVRPEV	DVMCTAFHDN	EETFLKKYLY	EIARRHPYFY
	HHHH	H	HHHHHHHH	HHHHHHHHH	HHHHH
	<b>IV</b>				
151	APELLFFAKR	YKAAFTECCO	AADKAAACLLP	KLDELRLDEGK	ASSAKQRLKC
	HHHHHHHHHH	HHHHHHHHH	HHHHH	HHHEHHHHHH	HHHHHHHHHH
	<b>V</b>				
201	ASLQKFGERA	FKAWAVARLS	QRFPKAEFAE	VSKLVTDLTK	VHTECCHGDL
	HHHHH	HH	HHHHHHHHHH	HH	HHH HHHHHHHHHH HHHHHH HH
	<b>VI</b>		<b>VII</b>		
251	LECADDRADL	AKYICENODS	ISSKLKECCE	KPLLEKSHCI	AEVENDEMPA
	HHHHHHHHHH	HHHHH	HHHHH	HHHHHHH	H
301	DLPSLAADFV	ESKDVCKNYA	EAKDVFLGMF	LYEYARRHPD	YSVLLLLRLA
	HHHH	HHHHH	HHHHHHH	HHHHH	HHHHHHHH
	<b>VIII</b>				
351	KTYETTLEKC	CAAADPHECY	AKVFDEFKPL	VEEPQNLIKQ	NCELFEQLGE
	HHHHHHHHHH	HH	H	HHHHH	HHHHHHHHHH HHHHHH
	<b>IX</b>				
401	YKFQNALLVR	YTKKVPQVST	PTLVEVSRNL	GKVGSKCCKH	PEAKRMPCAE
	HHHHHHHHHH	HHHH	H	HHHHHHHHHH	HHH HHHHHHHH
	<b>X</b>		<b>XI</b>		
451	DYLSVVLNQL	CVLHEKTPVS	DRVTKCCTES	LVNRRPPCFSA	LEVDETYVPK
	HHHHHHHHHH	HHHHH	HHHHHHHHH	HHHHHHHH	
501	EFNAETFTFH	ADICTLSEKE	RQIKKQTALV	ELVKHKPKAT	KEQLKAVMDD
		HHH	HHH	HHHHHMEHHH	HHH HHHHHHHH
	<b>XII</b>				
551	FAAFVEKCKK	ADDKETCFAE	EGKKLVAASQ	AALGL	
	HHHHHHHH	HHHH	HHHHHHHHHH	HH	

Loop	Loop
I Val54-Asn61	VII Glu280-His288
II Thr76-Asp89	VIII Ala362-Glu368
III Ala92-Glu100	IX Lys439-Pro447
IV Gln170-Ala176	X Val462-Lys475
V His247-Glu252	XI Thr478-Pro486
VI Glu266-Glu277	XII Lys560-Thr566

Figure 9

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Examples of Modifications to Loop IV**a. Randomisation of Loop IV.**

IV

151    APELLFFAKR YKAAFTECCQ AADKAACLLP KLDEL RDEGK ASSAKQRLKC  
          HHHHHHHHHH HHHHHHHHHH            HHHHH HHHHHHHHHHH HHHHHHHHHHH

IV

151    APELLFFAKR YKAAFTECCX XXXXXXCLLP KLDEL RDEGK ASSAKQRLKC  
          HHHHHHHHHH HHHHHHHHHH            HHHHH HHHHHHHHHHH HHHHHHHHHHH

**X** represents the mutation of the natural amino acid to any other amino acid. One, more or all of the amino acids can be changed in this manner. This figure indicates all the residues have been changed.

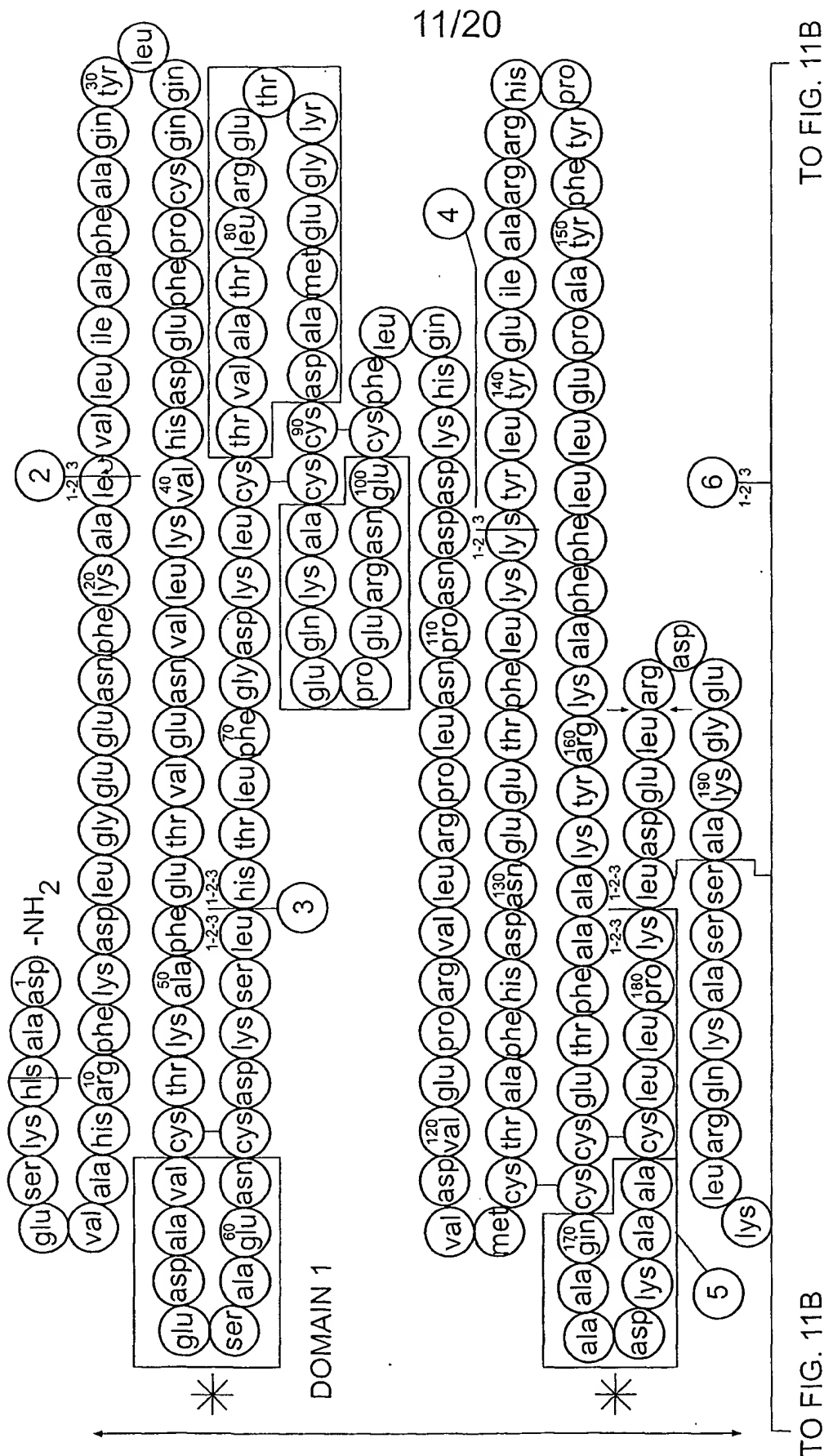
**b. Insertion (or replacement) of Randomised sequence into Loop IV.**

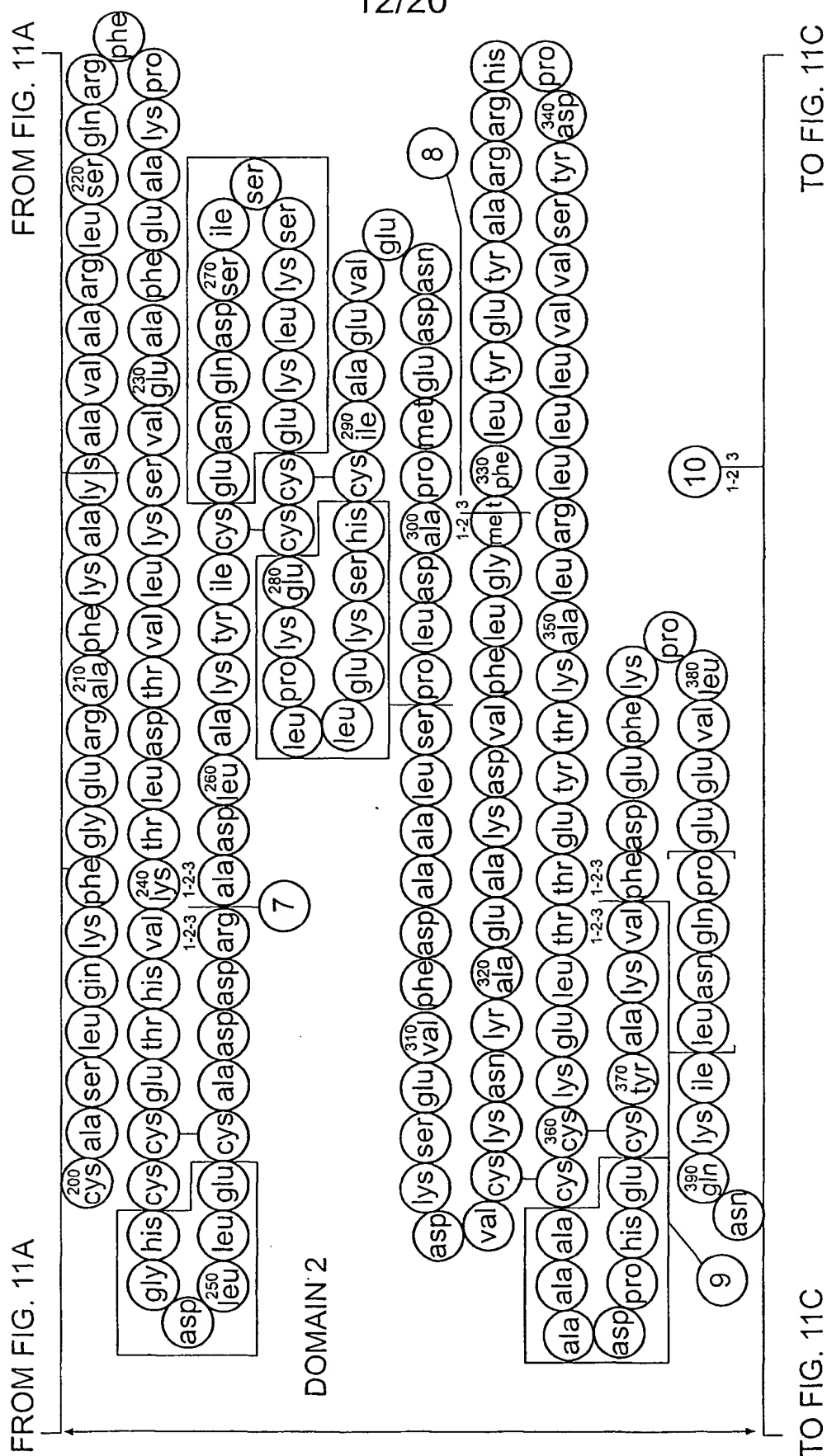
(X)<sub>n</sub>  
       ↓  
       ▽  
       IV

151    APELLFFAKR YKAAFTECCQ AADKAACLLP KLDEL RDEGK ASSAKQRLKC  
          HHHHHHHHHH HHHHHHHHHH            HHHHH HHHHHHHHHHH HHHHHHHHHHH

The insertion can be at any point on the loop and the length a length where n would typically be 6, 8, 12, 20 or 25.

Figure 10

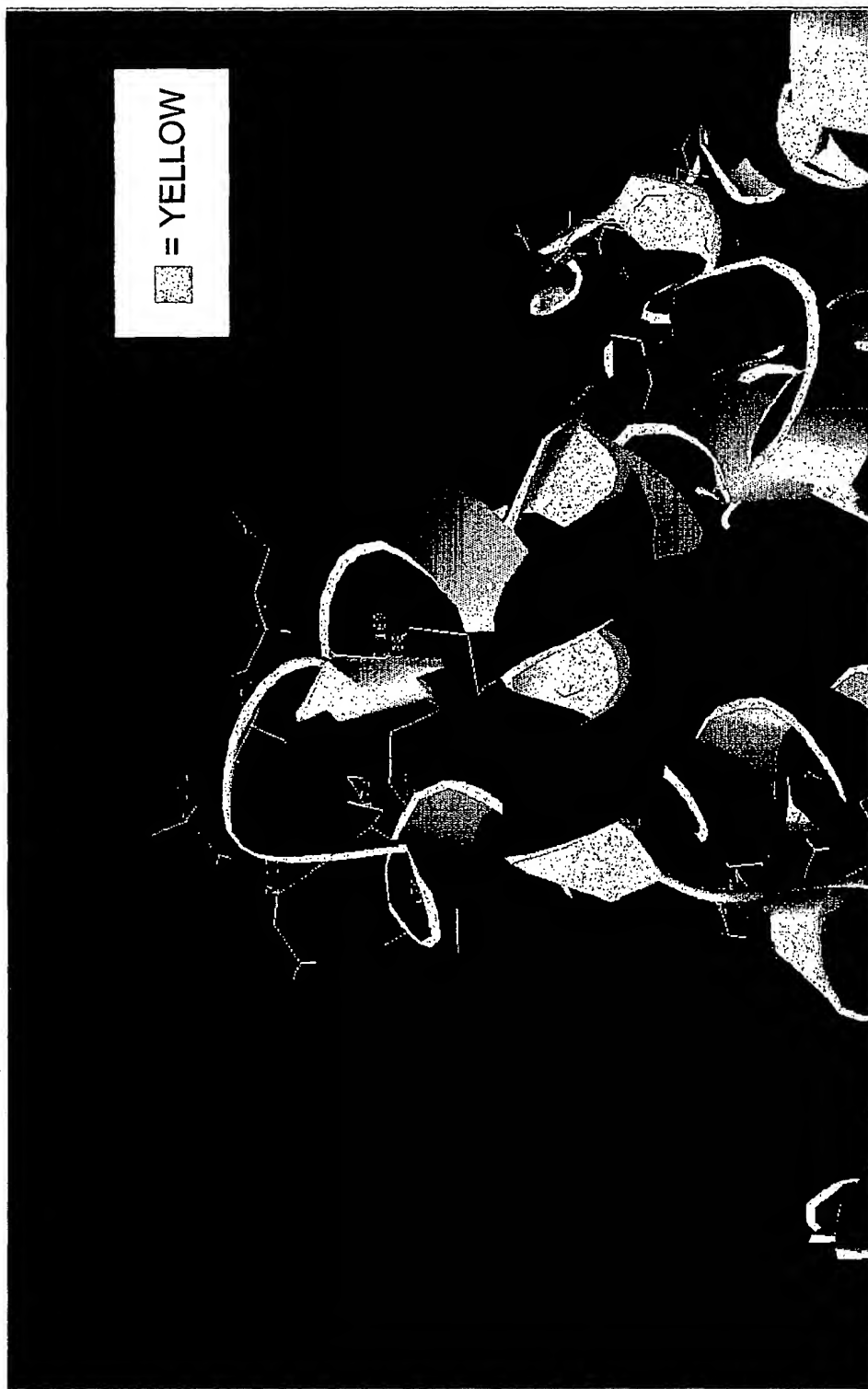




**FIG. 11B**



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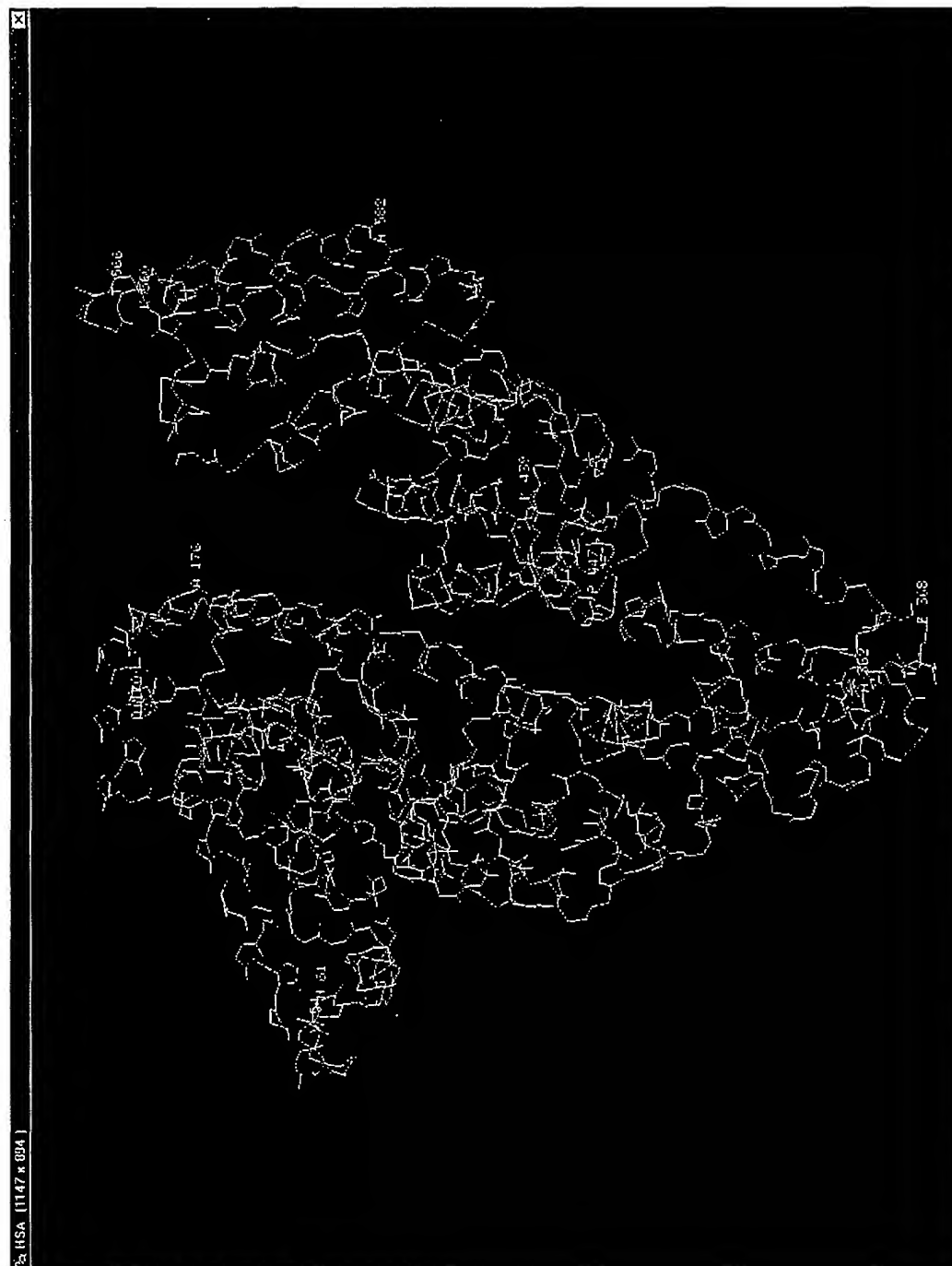


DISULFIDE BONDS SHOWN IN YELLOW

**FIG. 12:**  
LOOP IV GLU170-A176



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**FIG. 13**  
TERTIARY STRUCTURE OF HA

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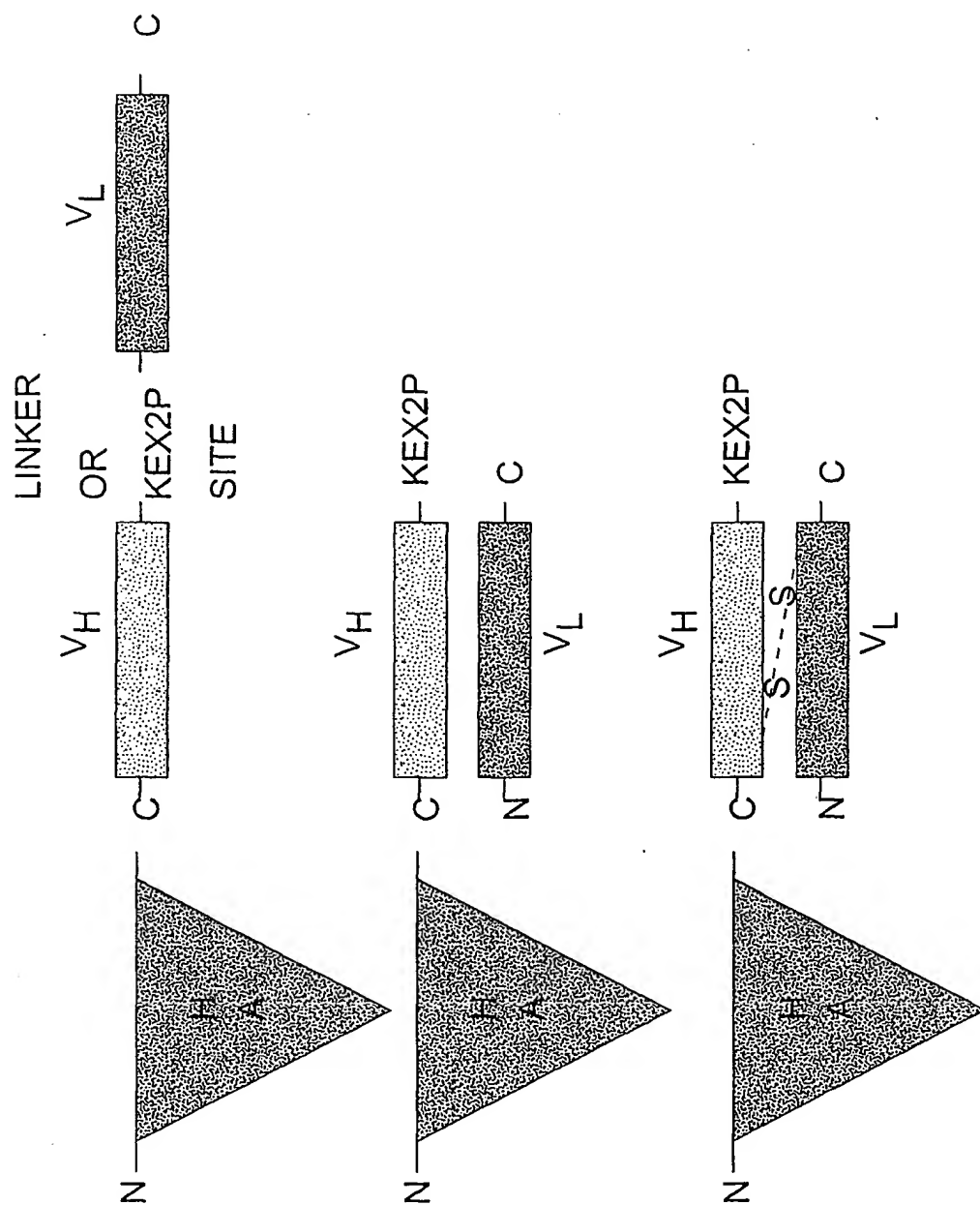


FIG. 14

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1 GAT GCA CAC AAG AGT GAG GTT GCT CAT CGG TTT AAA GAT TTG GGA GAA AAT TTC AAA 60
1 D A H K S E V A H R F K D L G E E N F K 20

61 GCC TTG GTG TTG ATT GCC TTT GCT CAG TAT CTT CAG CAG TGT CCA TTT GAA GAT CAT GTA 120
21 A L V L I A A F A Q Y L Q Q C P F E D H V 40

121 AAA TTA GTG AAT GAA GTA ACT GAA TTT GCA AAA ACA TGT GTT GCT GAT GAG TCA GCT GAA 180
41 K L V N E V T E F A K T C V A D E S A E 60

181 AAT TGT GAC AAA TCA CTT CAT ACC CTT TTT GGA GAC AAA TTA TGC ACA GTT GCA ACT CTT 240
61 N C D K S L H T L F G D K L C T V A T L 80

241 CGT GAA ACC TAT GGT GAA ATG GCT GAC TGC TGT GCA AAA CAA GAA CCT GAG AGA AAT GAA 300
81 R E T Y G E M A D C C A K Q E P E R N E 100

301 TGC TTC TTG CAA CAC AAA GAT GAC AAC CCA AAC CTC CCC CGA TTG GTG AGA CCA GAG GTT 360
101 C F L Q H K K D D N P N L P R L V R P E V 120

361 GAT GTG ATG TGC ACT GCT TTT CAT GAC AAT GAA GAG ACA TTT TTG AAA AAA TAC TTA TAT 420
121 D V M C T A F H D N E E T F L K K Y L Y 140

421 GAA ATT GCC AGA AGA CAT CCT TAC TTT TAT GCC CCG GAA CTC CTT TTC TTT GCT AAA AGG 480
141 E I A R R H P Y F Y A P E L L F F A K R 160

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Figure 15A

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481 TAT AAA GCT GCT TTT ACA GAA TGT TGC CAA GCT GCT GAT AAA GCT GCC TGC CTG TTG CCA 540
161 Y K A A F T E C C Q A A D K A A C L L P 180

541 AAG CTC GAT GAA CTT CGG GAT GAA GGG AAG GCT TCG TCT GCC AAA CAG AGA CTC AAA TGT 600
181 K L D E L R D E G K A S S A K Q R L K C 200

601 GCC AGT CTC CAA AAA TTT GGA GAA AGA GCT TTC AAA GCA TGG GCA GTG GCT CGC CTG AGC 660
201 A S L Q K F G E R A F K A W A V A R L S 220

661 CAG AGA TTT CCC AAA GCT GAG TTT GCA GAA GTT TCC AAG TTA GTG ACA GAT CTT ACC AAA 720
221 Q R F P K A E F A E V S K L V T D L T K 240

721 GTC CAC ACG GAA TGC TGC CAT GGA GAT CTG CTT GAA TGT GCT GAT GAC AGG GCG GAC CTT 780
241 V H T E C C H G D L L E C A D D R A D L 260

781 GCC AAG TAT ATC TGT GAA AAT CAG GAT TCG ATC TCC AGT AAA CTG AAG GAA TGC TGT GAA 840
261 A K Y I C E N Q D S I S S K L K E C C E 280

841 AAA CCT CTG TTG GAA AAA TCC CAC TGC ATT GCC GAA GTG GAA AAT GAT GAG ATG CCT GCT 900
281 K P L L E K A A T C S H C I A E V E N D E M P A 300

901 GAC TTG CCT TCA TTA GCT GCT GAT TTT GTT GAA AGT AAG GAT GTT TGC AAA AAC TAT GCT 960
301 D L P S L A A D F V E S K D V C K N Y A 320

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Figure 15B

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961	GAG	GCA	AAG	GAT	GTC	TTC	CTG	GGC	ATG	TTT	TTG	TAT	GAA	TAT	GCA	AGA	AGG	CAT	CCT	GAT	1020
321	E	A	K	D	V	F	L	G	M	F	L	Y	E	Y	A	R	R	H	P	D	340
1021	TAC	TCT	GTC	GTG	CTG	CTG	CTG	AGA	CTT	GCC	AAG	ACA	TAT	GAA	ACC	ACT	CTA	GAG	AAG	TGC	1080
341	Y	S	V	V	L	L	L	R	L	A	K	T	Y	E	T	T	L	E	K	C	360
1081	TGT	GCC	GCT	GCA	GAT	CCT	CAT	GAA	TGC	TAT	GCC	AAA	GTG	TTC	GAT	GAA	TTT	AAA	CCT	CTT	1140
361	C	A	A	A	D	P	H	E	C	Y	A	K	V	F	D	E	F	K	P	L	380
1141	GTG	GNA	GAG	CCT	CAG	AAT	TTA	ATC	AAA	CAA	AAC	TGT	GAG	CTT	TTT	GAG	CAG	CTT	GGA	GAG	1200
381	V	E	E	P	Q	N	L	I	K	Q	N	C	E	L	F	E	Q	L	G	E	400
1201	TAC	AAA	TTC	CAG	AAT	GCG	CTA	TTA	GTT	CGT	TAC	ACC	AAG	AAA	GTA	CCC	CAA	GTG	TCA	ACT	1260
401	Y	K	F	Q	N	A	L	L	V	R	Y	T	K	K	V	P	Q	V	S	T	420
1261	CCA	ACT	CTT	GTA	GAG	GTC	TCA	AGA	AAC	CTA	GGA	AAA	GTG	GGC	AGC	AAA	TGT	TGT	AAA	CAT	1320
421	P	T	L	V	E	V	S	R	N	L	G	K	V	G	S	K	C	C	K	H	440
1321	CCT	GAA	GCA	AAA	AGA	ATG	CCC	TGT	GCA	GAA	GAC	TAT	CTA	TCC	GTG	GTC	CTG	AAC	CAG	TTA	1380
441	P	E	A	K	R	M	P	C	A	E	D	Y	L	S	V	V	L	N	Q	L	460
1381	TGT	GTG	TTG	CAT	GAG	AAA	ACG	CCA	GTA	AGT	GAC	AGA	GTC	ACA	AAA	TGC	TGC	ACA	GAG	TCC	1440
461	C	V	L	H	E	K	T	P	V	S	D	R	V	T	K	C	C	T	E	S	480

Figure 15C

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1441 TTG GTG AAC AGG CGA CCA TGC TTT TCA GCT CTG GAA GTC GAT GAA ACA TAC GTT CCC AAA 1500
481 L V N R R P C F S A L E V D E T Y V P K 500

1501 GAG TTT AAT GCT AAG AAA ACA TTC ACC TTC CAT GCA GAT ATA TGC ACA CTT TCT GAG AAG GAG 1560
501 E F N A E T F T F H A D I C T L S E K E 520

1561 AGA CAA ATC AAG AAA CAA ACT GCA CTT GTT GAG CTT GTG AAA CAC AAG CCC AAG GCA ACA 1620
521 R Q I K K Q T A L V E L V K H K P K A T 540

1621 AAA GAG CAA CTG AAA GCT GTT ATG GAT GAT TTC GCA GCT TTT GTA GAG AAG TGC TGC AAG 1680
541 K E Q L K A V M D D F A A F V E K C C K 560

1681 GCT GAC GAT AAG GAG ACC TGC TTT GCC GAG GAG GGT AAA AAA CTT GTT GCT GCA AGT CAA 1740
561 A D D K E T C F A E E G K K L V A A S Q 580

1741 GCT GCC TTA GGC TTA TAA CAT CTA CAT TTA AAA GCA TCT CAG 1782
581 A A L G L * 585

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Figure 15D